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GeneTex, Inc : Toll Free 1-877-GeneTex (1-877-436-3839) Fax:1-949-309-2888 info@genetex.com
GeneTex International Corporation : Tel:886-3-6208988 Fax:886-3-6208989 infoasia@genetex.com

Datasheet

Date : 2016/4/11

GTX300092 Acetyl-Histone H3 Antibody Panel

Content

Cat No	Product Name	Applications	Package
GTX122648	Histone H3K9K14ac (acetyl Lys9/Lys14) antibody	Dot, ICC/IF, WB	25 µl
GTX122148	Histone H3 antibody	ICC/IF, IHC-P, IP, WB, ChIP assay	25 µl
GTX61520	Histone H3K14ac (acetyl Lys14) antibody [EP964Y]	ICC/IF, IHC-P, IP, WB, IHC-Wm, ChIP assay	25 µl
GTX61722	Histone H3K56ac (acetyl Lys56) antibody [EPR996Y]	ICC/IF, IHC, IHC-P, WB	25 µl
GTX213110-01	Rabbit IgG antibody (HRP)	Dot, ELISA, IHC-P, WB	25 µl

Note

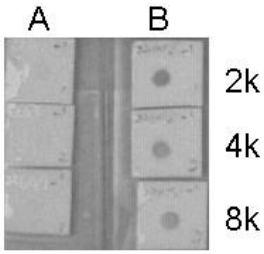
For *In vitro* laboratory use only. Not for any clinical, therapeutic, or diagnostic use in humans or animals. Not for animal or human consumption.

DataSheet - 1

Catalog Number	GTX122648 Package:25 µl,100 µl Reference (2)
Product Name	Histone H3K9K14ac (acetyl Lys9/Lys14) antibody
Full Name	histone cluster 1, H3a
Synonyms	H3a antibody antibody, histone H3/d antibody, histone H3/i antibody, histone H3/h antibody, member A antibody antibody, histone H3/j antibody, acetyl Histone H3 antibody, histone H3/c antibody, HIST1H3A antibody, HIST1H3C antibody, histone H3.1 antibody, histone 1 antibody, HIST1H3F antibody, histone cluster 1 antibody, histone H3/a antibody, H3 histone family antibody, H3/A antibody, histone H3/f antibody, HIST1H3I antibody, Histone3 acetyl antibody, histone H3/k antibody, HIST1H3J antibody, HIST1H3D antibody, HIST1H3B antibody, histone H3/b antibody, HIST1H3E antibody, HIST1H3G antibody, histone H3/l antibody, Acetyl Histone3 antibody, H3K9acK14ac antibody, HIST1H3H antibody, H3FA antibody
Product Description	Rabbit Polyclonal antibody to Histone H3 (acetyl Lys10, Lys15) (histone cluster 1, H3a)
Background	Histones are basic nuclear proteins that are responsible for the nucleosome structure of the chromosomal fiber in eukaryotes. This structure consists of approximately 146 bp of DNA wrapped around a nucleosome, an octamer composed of pairs of each of the four core histones (H2A, H2B, H3, and H4). The chromatin fiber is further compacted through the interaction of a linker histone, H1, with the DNA between the nucleosomes to form higher order chromatin structures. This gene is intronless and encodes a member of the histone H3 family. Transcripts from this gene lack polyA tails; instead, they contain a palindromic termination element. This gene is found in the large histone gene cluster on chromosome 6p22-p21.3. [provided by RefSeq]
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Antigen Species	Human
Species Reactivity	Human, Mouse
Predicted Cross Reactivity species	Chimpanzee
Predict Reactivity Note	Chimpanzee (100%)
Applications	Dot, ICC/IF, WB

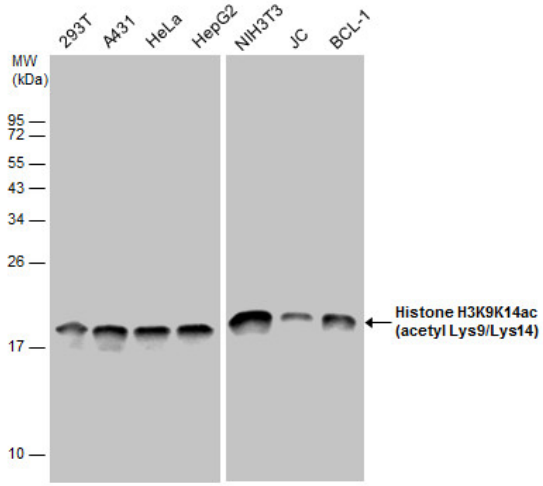
	Suggested dilution	Reference

Application Note	Dot blot	Assay-dependent dilution
	ICC/IF	1:100-1:1000*
	Western blot	1:5000-1:20000*
	Not tested in other applications. *Optimal dilutions/concentrations should be determined by the researcher.	
Positive Controls	293T , A431 , HeLa , HepG2 , NIH-3T3 , JC , BCL-1 , HeLa (0.4 µM Trichostatin treatment for 18 hr)	
Predicted Target Size	15 kDa	
Cellular Localization	Nucleus	
Conjugation	Unconjugated	
Form Supplied	Liquid	
Purification	Purified by antigen-affinity chromatography.	
Concentration	1 mg/ml (Please refer to the vial label for the specific concentration)	
Storage Buffer	1XPBS, 1% BSA, 20% Glycerol (pH7). 0.01% Thimerosal was added as a preservative.	
Storage Instruction	Keep as concentrated solution. Aliquot and store at -20ºC or below. Avoid multiple freeze-thaw cycles.	
Notes	For *In vitro* laboratory use only. Not for any clinical, therapeutic, or diagnostic use in humans or animals. Not for animal or human consumption.	
ResearchArea	Epigenetics > Unmodified histone	



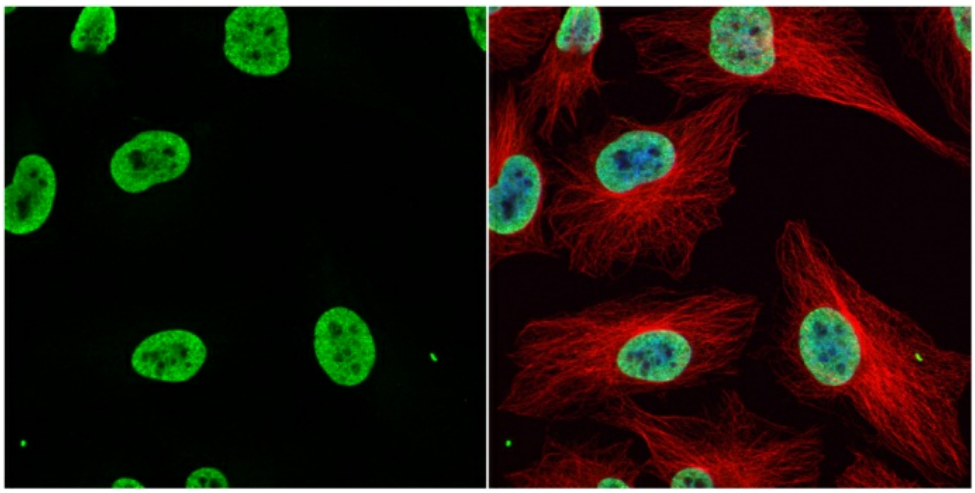
GTX122648 Dot Image

Dotblot analysis of anti-Histone H3 (acetyl Lys 9, Lys14) antibody with peptide samples.
Peptide samples (0.1 µg) were spotted onto positively charged nylon membrane and blotted with Histone H3 (acetyl Lys 9, Lys14) antibody (GTX122648) at different dilution indicated.
A: Peptide samples of Histone H3.1
B: Peptide samples of Histone H3 (acetyl Lys 9, Lys14)



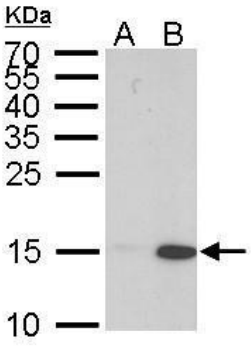
GTX122648 WB Image

Histone H3K9K14ac (acetyl Lys9/Lys14) antibody detects Histone H3K9K14ac (acetyl Lys9/Lys14) protein by western blot analysis. Various whole cell extracts (30 µg) we separated by 12% SDS-PAGE, and the membrane was blotted with Histone H3K9K14ac (acetyl Lys9/Lys14) antibody (GTX122648) diluted at a dilution of 1:10000.



GTX122648 ICC/IF Image

Histone H3K9K14ac (acetyl Lys9/Lys14) antibody detects Histone H3K9K14ac (acetyl Lys9/Lys14) protein at nucleus by immunofluorescent analysis.
Sample: HeLa cells were fixed in 4% paraformaldehyde at RT for 15 min.
Green: Histone H3K9K14ac (acetyl Lys9/Lys14) protein stained by Histone H3K9K14ac (acetyl Lys9/Lys14) antibody (GTX122648) diluted at 1:1000.
Red: alpha Tubulin, a cytoskeleton marker, stained by alpha Tubulin antibody [GT114] (GTX628802) diluted at 1:1000.
Blue: Hoechst 33342 staining.



GTX122648 WB Image

Histone H3 (acetyl Lys 9, Lys14) antibody detects Histone H3 (acetyl Lys 9, Lys14) protein by Western blot analysis.
A. 30 µg HeLa whole cell lysate/extract (untreated)
B. 30 µg HeLa whole cell lysate/extract (0.4 µM Trichostatin treatment for 18 hr)
15 % SDS-PAGE
Histone H3 (acetyl Lys 9, Lys14) antibody (GTX122648) dilution: 1:10000

Application Reference

1. Yu-Ting Peng (2015) *Toxicology Reports* 322-332 **2.** Lee KH (2014) *Sci Rep* 6394

DataSheet - 2

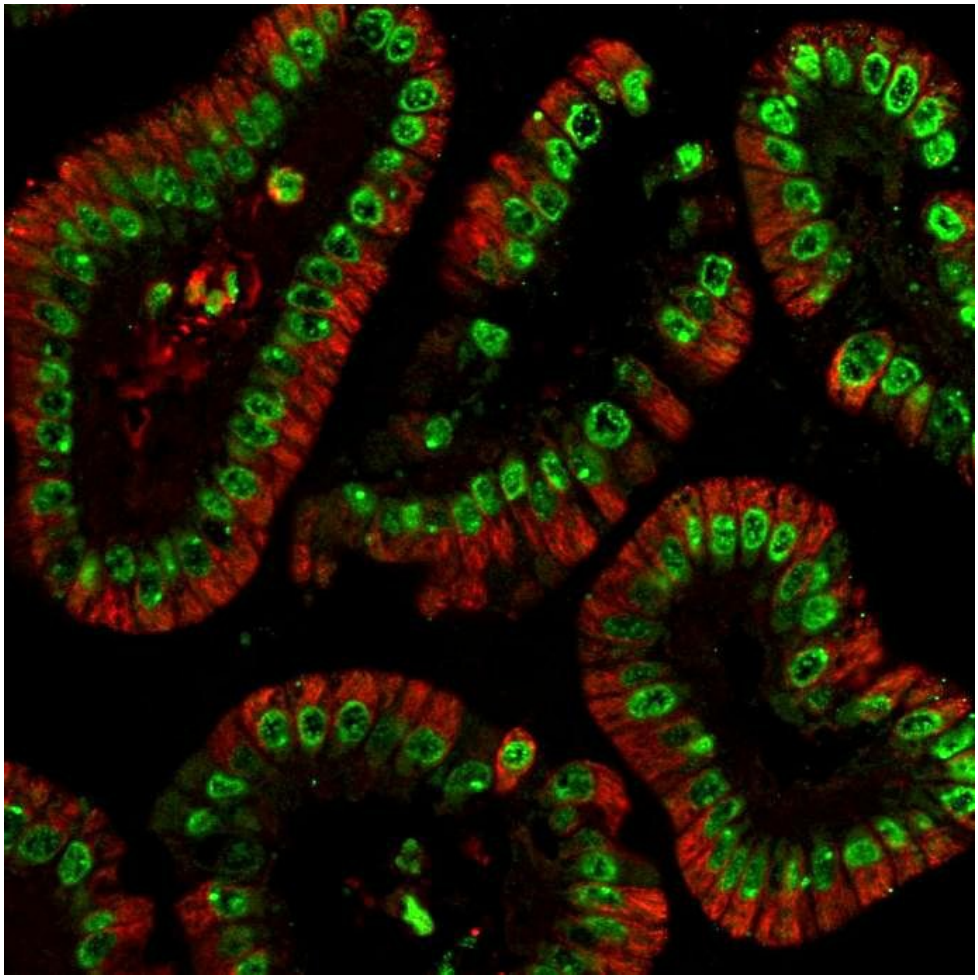
Catalog Number	GTX122148	Package:25 µl,100 µl	★★★★☆ (3) Reference (4)
Product Name	Histone H3 antibody		
Full Name	histone cluster 1, H3a		
Synonyms	H3/A antibody, H3FA antibody, HIST1H3B antibody, HIST1H3C antibody, HIST1H3D antibody, HIST1H3E antibody, HIST1H3F antibody, HIST1H3G antibody, HIST1H3H antibody, HIST1H3I antibody, HIST1H3J antibody, HIST1H3A antibody, histone H3/j antibody, histone H3/i antibody, histone H3/d antibody, histone H3/a antibody, histone H3/h antibody, histone H3/k antibody, histone H3/l antibody, histone H3.1 antibody, "H3 histone family, member A antibody", histone H3/c antibody, "histone 1, H3a antibody", histone H3/f antibody, histone H3/b antibody, "histone cluster 1, H3a antibody"		
Product Description	Rabbit Polyclonal antibody to Histone H3 (histone cluster 1, H3a) Histones are basic nuclear proteins that are responsible for the nucleosome structure of the chromosomal fiber in eukaryotes. This structure consists of approximately 146 bp of DNA wrapped around a nucleosome, an octamer composed of pairs of each of the four core		

Background	histones (H2A, H2B, H3, and H4). The chromatin fiber is further compacted through the interaction of a linker histone, H1, with the DNA between the nucleosomes to form higher order chromatin structures. This gene is intronless and encodes a member of the histone H3 family. Transcripts from this gene lack polyA tails; instead, they contain a palindromic termination element. This gene is found in the large histone gene cluster on chromosome 6p22-p21.3. [provided by RefSeq]
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Immunogen	Carrier-protein conjugated synthetic peptide encompassing a sequence within the N-terminus region of human Histone H3. The exact sequence is proprietary.
Antigen Species	Human
Species Reactivity	Human, Mouse, Drosophila, Monkey, Rat, Rice
Applications	ICC/IF, IHC-P, IP, WB, ChIP assay
Application Note	

	Suggested dilution	Reference
ChIP assay	Assay-dependent dilution	
ICC/IF	1:100-1:1000*	
IHC (Formalin-fixed paraffin-embedded sections)	1:100-1:1000*	
Immunoprecipitation	1:100-1:500*	
Western blot	1:500-1:10000*	

Not tested in other applications.
*Optimal dilutions/concentrations should be determined by the researcher.

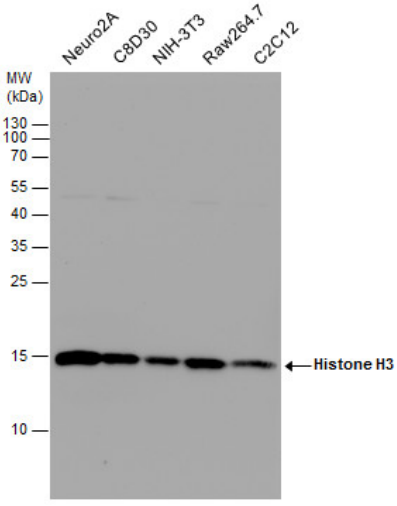
Positive Controls	293T , A431 , HeLa , HepG2 , PC-12 , Rat2 , Neuro 2A , C8D30 , NIH-3T3 , Raw264.7 , C2C12
Predicted Target Size	15 kDa
Cellular Localization	Nucleus
Conjugation	Unconjugated
Form Supplied	Liquid
Purification	Purified by antigen-affinity chromatography.
Concentration	1 mg/ml (Please refer to the vial label for the specific concentration)
Storage Buffer	1XPBS, 1% BSA, 20% Glycerol (pH7). 0.01% Thimerosal was added as a preservative.
Storage Instruction	Keep as concentrated solution. Aliquot and store at -20ºC or below. Avoid multiple freeze-thaw cycles.
Notes	For *In vitro* laboratory use only. Not for any clinical, therapeutic, or diagnostic use in humans or animals. Not for animal or human consumption.
ResearchArea	Epigenetics > Unmodified histone



GTX122148 IHC-P Image

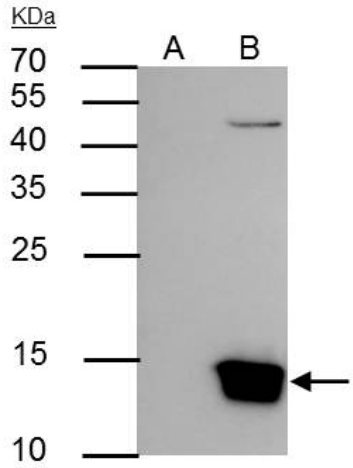
Histone H3 antibody detects Histone H3 protein at nucleus in mouse colon by immunohistochemical analysis.
Sample: Paraffin-embedded mouse colon.
Green: Histone H3 antibody (GTX122148) diluted at 1:500.

Red: alpha Tubulin antibody [GT114] (GTX628802) diluted at 1:500.



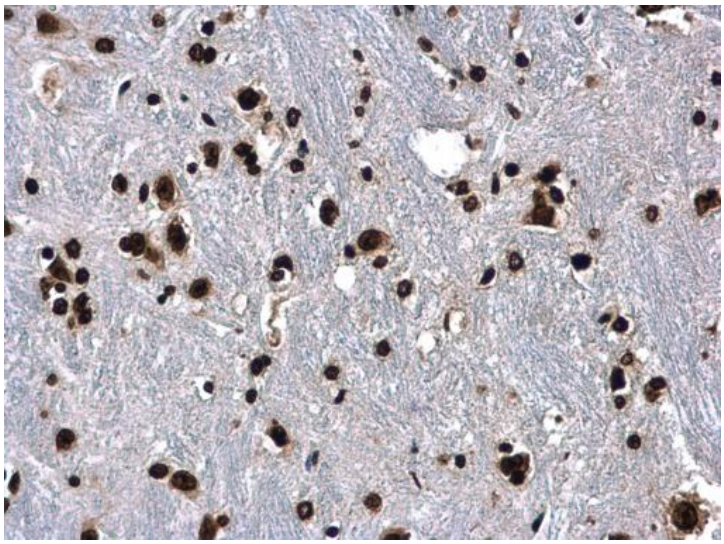
GTX122148 WB Image

Histone H3 antibody detects Histone H3 protein by western blot analysis. Various whole cell extracts (30 µg) were separated by 15% SDS-PAGE, and the membrane was blotted with Histone H3 antibody (GTX122148) diluted at a dilution of 1:10000.



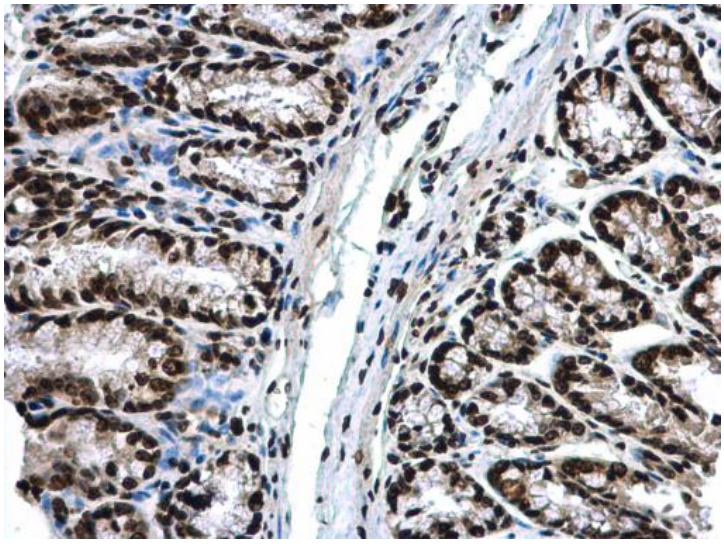
GTX122148 IP Image

Histone H3 antibody immunoprecipitates Histone H3 protein in IP experiments. IP Sample: Raji whole cell lysate/extract A : Control with 3 µg of pre-immune rabbit IgG B : Immunoprecipitation of Histone H3 by 3 µg of Histone H3 antibody (GTX122148) 15% SDS-PAGE The immunoprecipitated Histone H3 protein was detected by Histone H3 antibody (GTX122148) diluted at 1 : 1000. EasyBlot anti-rabbit IgG (HRP) (GTX221666-01) was used as a secondary reagent.



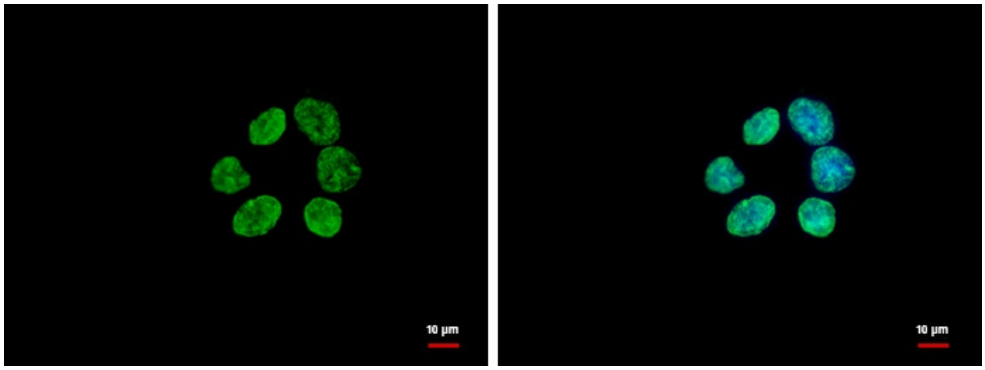
GTX122148 IHC-P Image

Histone H3 antibody detects Histone H3 protein at nucleus in mouse brain by immunohistochemical analysis.
Sample: Paraffin-embedded mouse brain.
Histone H3 antibody (GTX122148) diluted at 1:500.



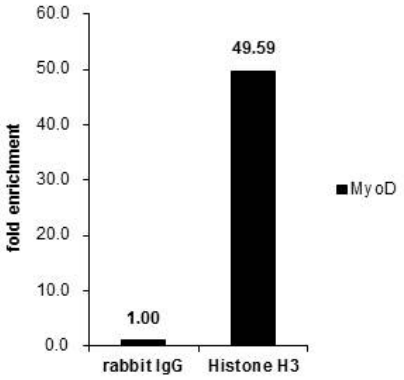
GTX122148 IHC-P Image

Histone H3 antibody detects Histone H3 protein at nucleus in mouse colon by immunohistochemical analysis.
Sample: Paraffin-embedded mouse colon.
Histone H3 antibody (GTX122148) diluted at 1:500.



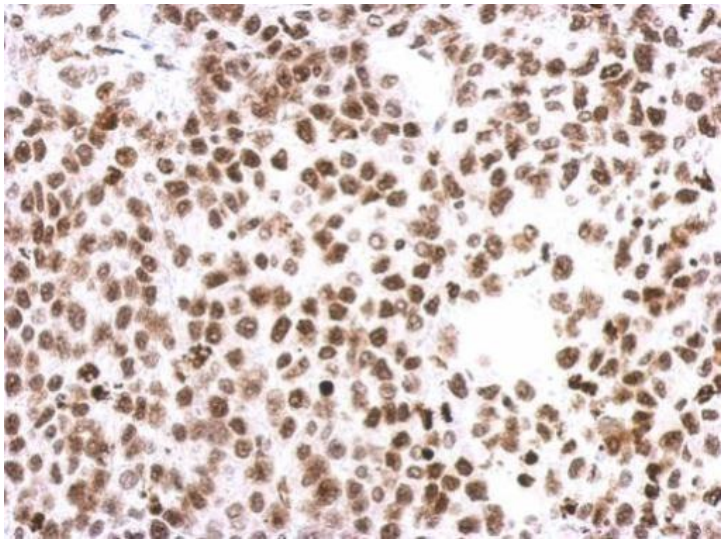
GTX122148 ICC/IF Image

Histone H3 antibody detects Histone H3 protein at nucleus by immunofluorescent analysis.
Sample: A431 cells were fixed in ice-cold MeOH for 5 min.
Green: Histone H3 protein stained by Histone H3 antibody (GTX122148) diluted at 1:500.
Blue: Hoechst 33342 staining.



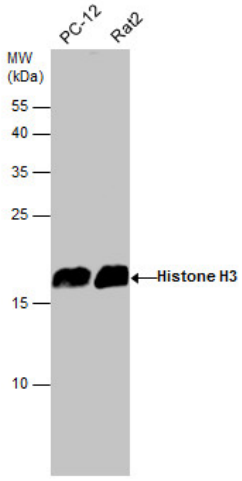
GTX122148 ChIP Image

Cross-linked ChIP was performed with HeLa chromatin extract and 5 µg of either control rabbit IgG or anti-Histone H3 antibody. The precipitated DNA was detected by PCR with primer set targeting to MyoD.



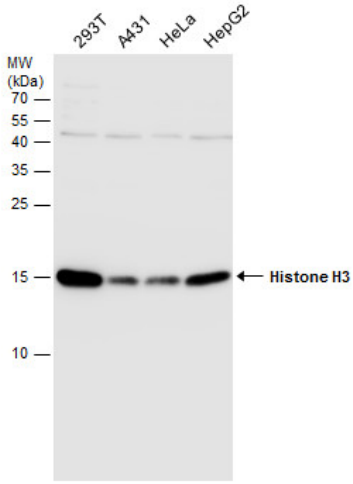
GTX122148 IHC-P Image

Immunohistochemical analysis of paraffin-embedded Hela xenograft, using Histone H3(GTX122148) antibody at 1:500 dilution.



GTX122148 WB Image

Various whole cell extracts (30 µg) were separated by 15% SDS-PAGE, and the membrane was blotted with Histone H3 antibody (GTX122148) diluted at 1:3000.



GTX122148 WB Image

Various whole cell extracts (30 µg) were separated by 15% SDS-PAGE, and the membrane was blotted with Histone H3 antibody (GTX122148) diluted at 1:1000.

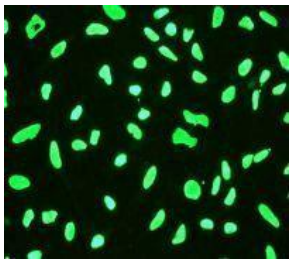
Application Reference

1. Li CJ (2015) *Sci Rep*
2. Huang YC (2014) *PLoS Genet* e1004760
3. Lee KH (2014) *Sci Rep* 6394
4. Lee YR (2012) *J Biomed Sci* 9

DataSheet - 3

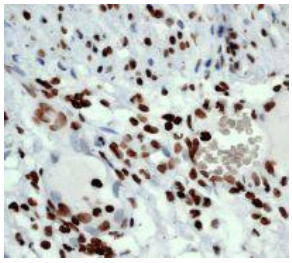
Catalog Number	GTX61520
Product Name	Histone H3K14ac (acetyl Lys14) antibody [EP964Y]
Full Name	histone cluster 1, H3a
Synonyms	H3/A, HIST1H3A, HIST1H3B, HIST1H3J, HIST1H3E, H3FA, HIST1H3D, HIST1H3H, HIST1H3F, HIST1H3G, HIST1H3I, HIST1H3C, Histone H3 (acetyl K14), Histone H3 (acetyl Lys14), Histone H3 acetyl K14, Histone H3 acetyl Lys14, Acetyl Histone H3 (K14), Acetyl Histone H3 (Lys14)
Product Description	Rabbit monoclonal antibody [EP964Y] to Histone H3 Acetyl K14
Specificity	This antibody recognizes Histone H3 acetylated on K14.
Background	Changes in chromatin structure play a large role in the regulation of transcription in eukaryotes . The nucleosome is the primary building block of chromatin, and is made up of four core histone proteins (H2A, H2B, H3 and H4) . Acetylation of core histones regulates gene expression . Histone H3 is primarily acetylated at lysines 9, 14, 18, and 23 . Acetylation at lysine 9 appears to have a dominant role in histone deposition and chromatin assembly in some organisms . . H3t (H.34) differs from the consensus mammalian H3 structure by four

	amino acid residues and it is mainly expressed in testicular cells. H3t encoding gene maps to chromosome 1 (1q42), unlike the majority of the human histone genes that form cluster on chromosome 6 and outside of replication-dependent H3 genes .
Host	Rabbit
Clonality	Monoclonal
Clone Name	EP964Y
Isotype	IgG
Target	Histone H3 Acetyl K14
Immunogen	A synthetic acetyl-specific peptide corresponding to residues around Lysine 14 was used as an immunogen.
Antigen Species	Human
Species Reactivity	Human, Drosophila, Rat
Applications	ICC/IF, IHC-P, IP, WB, IHC-Wm, ChIP assay
Application Note	**Recommended Starting Dilutions:** For WB: Use at a dilution of 1:2000 For IHC: Use at a dilution of 1:100 - 250 For ICC: Use at a dilution of 1:250 - 500 For IP: Use at a dilution of 1:20 Optimal working dilution for a specific application should be determined by the investigator.
Predicted Target Size	17
Form Supplied	Liquid
Purification	Tissue culture supernatant
Storage Buffer	50 mM Tris-Glycine (pH 7.4), 0.15 M NaCl, 40% Glycerol, 0.01% sodium azide and 0.05% BSA.
Storage Instruction	Store at -20 °C. Stable for 12 months from date of receipt.
Notes	For *In vitro* laboratory use only. Not for any clinical, therapeutic, or diagnostic use in humans or animals. Not for animal or human consumption. RabMAb® technology is covered by the following U.S. Patents, No. 5,675,063 and/or 7,429,488.
ResearchArea	Epigenetics > Unmodified histone



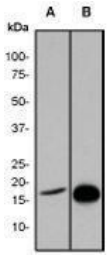
GTX61520 ICC/IF Image

C. Immunofluorescent staining of HeLa cells using anti-Histone H3TB RabMAb (cat. # GTX61520).



GTX61520 IHC-P Image

B. Immunohistochemical analysis of paraffin-embedded human adenocarcinoma of uterus using anti Histone H3TBRabMAb(cat. # GTX61520).

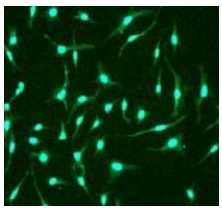


GTX61520 WB Image

A. Western blot analysis on C6 cell lysates using anti- Histone H3TB Acetyl K14 RabMAb (cat. #GTX61520) 1:2000 dilution. Cells were either (A) untreated (B) treated with TSA.

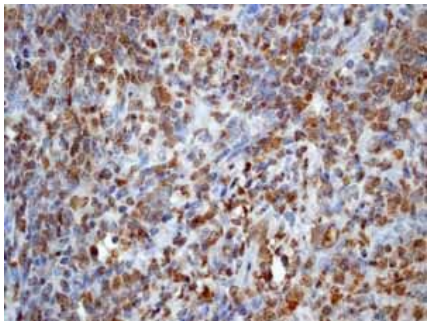
DataSheet - 4

Catalog Number	GTX61722 Package:100 µl
Product Name	Histone H3K56ac (acetyl Lys56) antibody [EPR996Y]
Full Name	histone cluster 1, H3a
Synonyms	histone cluster 1, H3a Antibody , H3/A Antibody , HIST1H3A Antibody , H3FA Antibody
Product Description	Rabbit monoclonal antibody [EPR996Y] to Histone H3 (acetyl Lys56)
Background	Histones are basic nuclear proteins that are responsible for the nucleosome structure of the chromosomal fiber in eukaryotes. This structure consists of approximately 146 bp of DNA wrapped around a nucleosome, an octamer composed of pairs of each of the four core histones (H2A, H2B, H3, and H4). The chromatin fiber is further compacted through the interaction of a linker histone, H1, with the DNA between the nucleosomes to form higher order chromatin structures. This gene is intronless and encodes a member of the histone H3 family. Transcripts from this gene lack polyA tails; instead, they contain a palindromic termination element. This gene is found in the large histone gene cluster on chromosome 6p22-p21.3. [provided by RefSeq, Jul 2008]
Host	Rabbit
Clonality	Monoclonal
Clone Name	EPR996Y
Isotype	IgG
Target	Histone H3 (acetyl Lys56)
Immunogen	A synthetic acetylated peptide corresponding to residues surrounding Lys 56 of Histone H3
Antigen Species	Human
Species Reactivity	Human, Mouse, Monkey, Rat
Applications	ICC/IF, IHC, IHC-P, WB
Form Supplied	Liquid
Purification	Tissue culture supernatant
Storage Buffer	PBS containing 50% Glycerol, 0.05% BSA and 0.01% Sodium azide.
Storage Instruction	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C. Avoid freeze / thaw cycle.
Notes	For *In vitro* laboratory use only. Not for any clinical, therapeutic, or diagnostic use in humans or animals. Not for animal or human consumption. RabMAb® technology is covered by the following U.S. Patents, No. 5,675,063 and/or 7,429,488.
ResearchArea	Epigenetics > Unmodified histone



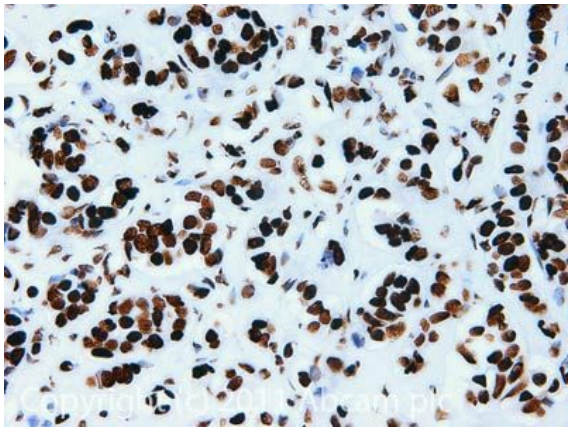
GTX61722 ICC/IF Image

ICC/IF analysis of HeLa cells using Histone H3K56ac (acetyl Lys56) antibody [EPR996Y] at a dilution of 1:100.



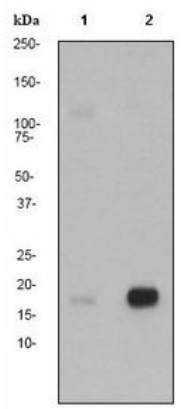
GTX61722 IHC Image

IHC analysis of Lymphoma tissue using Histone H3K56ac (acetyl Lys56) antibody [EPR996Y].



GTX61722 IHC-P Image

IHC-P analysis of breast cancer using Histone H3K56ac (acetyl Lys56) antibody [EPR996Y].



GTX61722 WB Image

WB analysis of lysates from (1) untreated and (2) TSA-treated C6 cells using Histone H3K56ac (acetyl Lys56) antibody [EPR996Y] at a dilution of 1:2,000.

DataSheet - 5

Catalog Number	GTX213110-01	Package:1 ml	Reference (38)
Product Name	Rabbit IgG antibody (HRP)		
Synonyms	antiRabbit IgG antibody, anti-Rabbit IgG antibody, Goat antiRabbit IgG HRP, Rabbit IgG secondary antibody, Goat anti-Rabbit IgG HRP, anti Rabbit IgG antibody, Goat anti Rabbit IgG HRP		
Product Description	HRP-conjugated Goat anti-Rabbit IgG polyclonal antibody		
Background	Immunoglobulin G (IgG), is one of the most abundant proteins in serum with normal levels between 8-17 mg/ml in adult blood. IgG is important for our defence against microorganisms and the molecules are produced by B lymphocytes as a part of our adaptive immune response. The IgG molecule has two separate functions; to bind to the pathogen that elicited the response and to recruit other cells and molecules to destroy the antigen. The variability of the IgG pool is generated by somatic recombination and the number of specificities in an individual at a given time point is estimated to be 1011 variants.		
Host	Goat		
Clonality	Polyclonal		

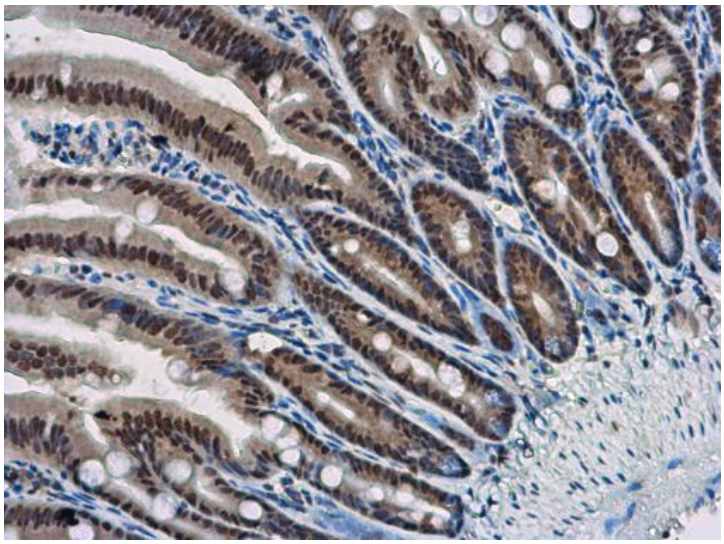
Isotype	IgG
Target	Rabbit IgG
Immunogen	Highly purified whole rabbit IgG
Antigen Species	Rabbit
Cross Reactivity Note	Rabbit
Applications	Dot, ELISA, IHC-P, WB

Application Note

	Suggested dilution	Reference
Dot blot	Assay-dependent dilution	
ELISA	Assay-dependent dilution	
IHC (Formalin-fixed paraffin-embedded sections)	1:100-1:1000*	
Western blot	Assay-dependent dilution	

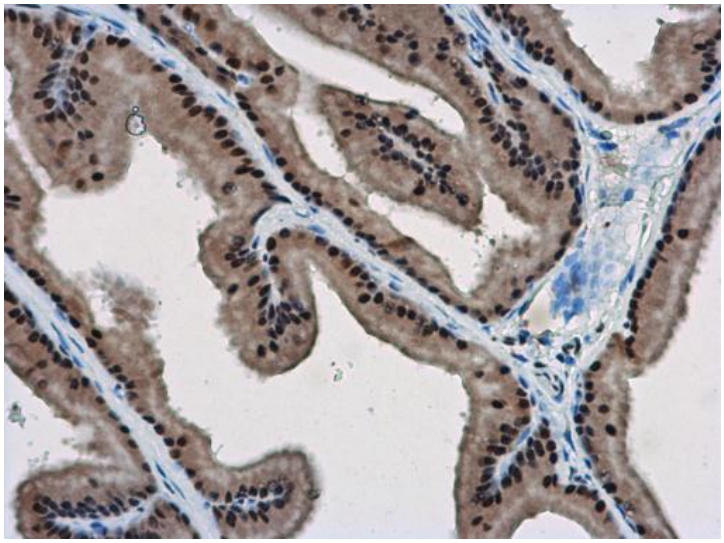
Not tested in other applications.
*Optimal dilutions/concentrations should be determined by the researcher.

Conjugation	HRP
Form Supplied	Liquid
Purification	Affinity purified with antigen
Concentration	0.15 mg/ml (Please refer to the vial label for the specific concentration)
Storage Buffer	0.05M Tris, 0.15M NaCl (pH7.4), 1%BSA. 0.025% ProClin 300 was added as a preservative.
Storage Instruction	Keep as concentrated solution. Aliquot and store at -20°C or below. Avoid multiple freeze-thaw cycles.
Notes	For *In vitro* laboratory use only. Not for any clinical, therapeutic, or diagnostic use in humans or animals. Not for animal or human consumption.



GTX213110-01 IHC-P Image

WBP11 antibody detects WBP11 protein at nucleus in mouse intestine by immunohistochemical analysis.
Sample: Paraffin-embeddedmouse intestine.
WBP11 antibody (GTX118654) diluted at 1:500.
The signal was developed byRabbit IgG antibody (HRP) (GTX213110-01)



GTX213110-01 IHC-P Image

WBP11 antibody detects WBP11 protein at nucleus in rat prostate by immunohistochemical analysis.
Sample: Paraffin-embedded rat prostate.
WBP11 antibody (GTX118654) diluted at 1:500.
The signal was developed by Rabbit IgG antibody (HRP) (GTX213110-01).

Application Reference

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