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Datasheet

Date : 2016/4/11

GTX300066 Neuronal Marker IHC Antibody Panel

Content

Cat No	Product Name	Applications	Package
GTX111679	MAP2 antibody	ICC/IF, WB	25 µl
GTX100865	Synaptophysin antibody	ICC/IF, IHC-P, WB	25 µl
GTX102127	VAMP1 antibody	IHC-P, WB	25 µl
GTX61948	PSD95 antibody [EP2652Y], N-term	FACS, ICC/IF, IP, 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 GTX111679 Reference (2)

Product Name MAP2 antibody

Full Name microtubule-associated protein 2

Synonyms DKFZp686I2148 antibody, MAP2A antibody, MAP2B antibody, MAP2C antibody, MAP2 antibody, microtubule-associated protein 2 antibody, MAP-2 antibody

Product Description Rabbit Polyclonal antibody to MAP2 (microtubule-associated protein 2)

Background This gene encodes a protein that belongs to the microtubule-associated protein family. The proteins of this family are thought to be involved in microtubule assembly, which is an essential step in neurogenesis. The products of similar genes in rat and mouse are neuron-specific cytoskeletal proteins that are enriched in dentrites, implicating a role in determining and stabilizing dentritic shape during neuron development. A number of alternatively spliced variants encoding distinct isforms have been described. [provided by RefSeq]

Host Rabbit

Clonality Polyclonal

Isotype IgG

Antigen Species Human

Species Reactivity Human, Mouse

Applications ICC/IF, WB

Application Note

	Suggested dilution	Reference
ICC/IF	Assay-dependent dilution	
Western blot	1:1000-1:10000*	

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

Positive Controls U87-MG , mouse brain

Predicted Target Size 200 kDa

Cellular Localization Cytoplasm , cytoskeleton

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	Cell Biology > Cytoskeleton Neuroscience > Cell type markers > Neural stem cell markers Neuroscience > Cell type markers > Neuronal markers

Application Reference

1. Mo CF (2015) *Stem Cell Res Ther* 1
2. Chang WF (2014) *Brain Struct Funct*

DataSheet - 2

Catalog Number	GTX100865	Package:25 µl,100 µl	★★★★★ (2)
Product Name	Synaptophysin antibody		
Full Name	synaptophysin		
Synonyms	MRXSYP antibody, SYP antibody, synaptophysin antibody, major synaptic vesicle protein P38 antibody		
Product Description	Rabbit Polyclonal antibody to Synaptophysin (synaptophysin)		
Background	Synaptophysin (p38) is an integral membrane protein of small synaptic vesicles in brain and endocrine cells.[supplied by OMIM]		
Host	Rabbit		
Clonality	Polyclonal		
Isotype	IgG		
Immunogen	Recombinant protein encompassing a sequence within the C-terminus region of human Synaptophysin. The exact sequence is proprietary.		
Antigen Species	Human		
Species Reactivity	Human, Mouse, Rat		
Predicted Cross Reactivity species	Rhesus Monkey, Bovine		
Predict Reactivity Note	Rhesus Monkey (97%), Bovine (96%)		
Applications	ICC/IF, IHC-P, WB		

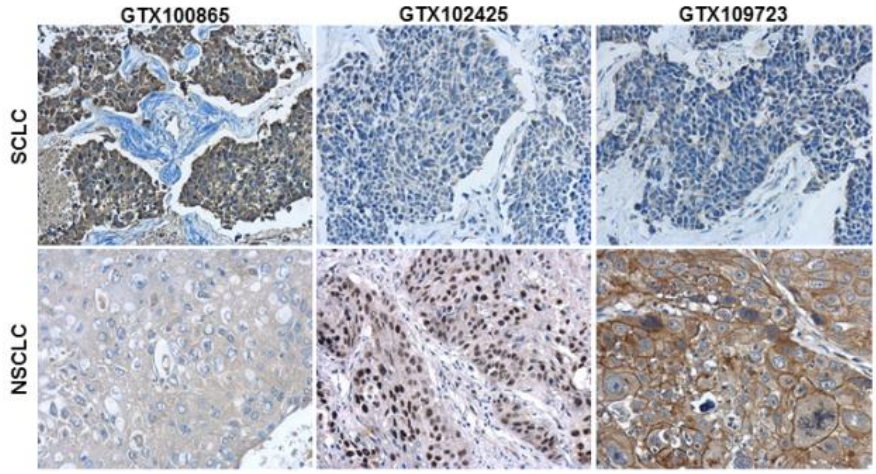
Application Note

	Suggested dilution	Reference
ICC/IF	1:100-1:1000*	
IHC (Formalin-fixed paraffin-embedded sections)	1:100-1:1000*	
Western blot	1:5000-1:50000*	

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

Positive Controls	mouse brain , rat brain , *Mouse small intestine , *LNCaP
Predicted Target Size	34 kDa

Cellular Localization	Cytoplasmic vesicle , secretory vesicle , synaptic vesicle membrane; Multi-pass membrane protein , Cell junction , synapse , synaptosome
Conjugation	Unconjugated
Form Supplied	Liquid
Purification	Purified by antigen-affinity chromatography.
Concentration	0.25 mg/ml (Please refer to the vial label for the specific concentration)
Storage Buffer	1XPBS, 20% Glycerol (pH7). 0.025% ProClin 300 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.

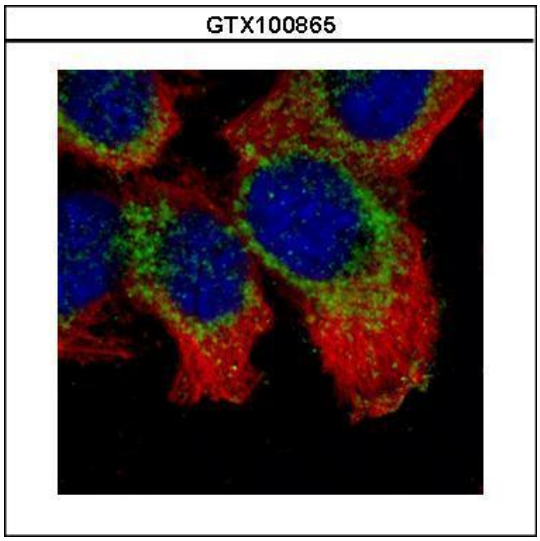


GTX100865 IHC-P Image

Immunohistochemical characterization of Synaptophysin (GTX100865), p63 (GTX102425) and Cytokeratin 7 (GTX109723) in human small cell lung cancer (SCLC) and non-small cell lung cancer (NSCLC) specimens.

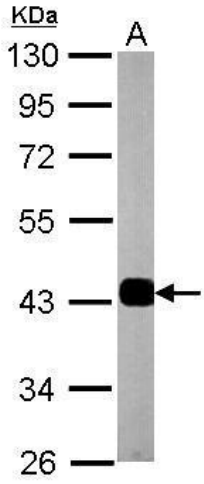
Sample: Paraffin-embedded human SCLC (upper panel) and NSCLC (lower panel).

The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH6) for 15 mins. The section was then incubated with primary antibody at 1:50(overnight at 4°C and detected using an HRP conjugated avidin-biotin-peroxidase Complex system. DAB was used as the chromogen and counterstained with haematoxylin.



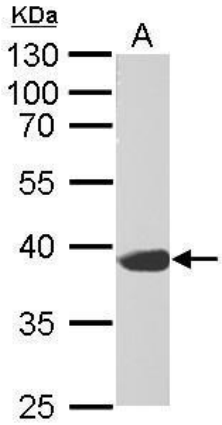
GTX100865 ICC/IF Image

Confocal immunofluorescence analysis (Olympus FV10i) of methanol-fixed A431, using Synaptophysin(GTX100865) antibody (Green) at 1:500 dilution. Alpha-tubulin filamen were labeled with GTX11304 (Red) at 1:500.



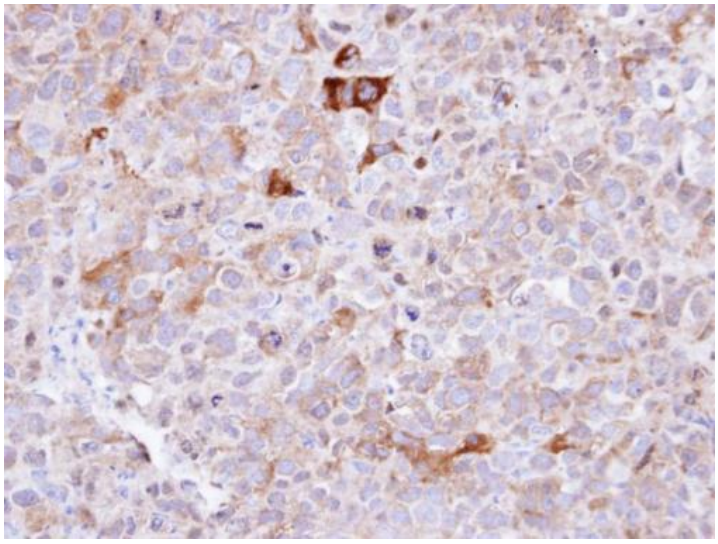
GTX100865 WB Image

Sample (20 ug of whole cell lysate)
A: mouse brain
10% SDS PAGE
GTX100865 diluted at 1:50000



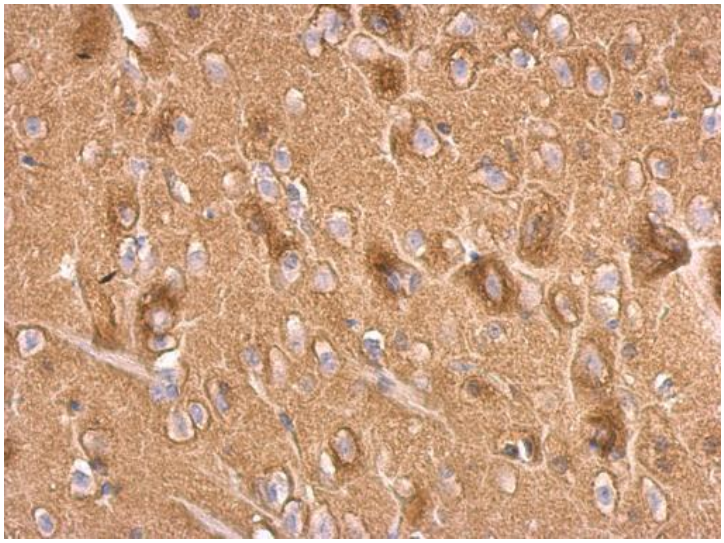
GTX100865 WB Image

Synaptophysin antibody detects SYP protein by Western blot analysis.
A. 50 µg rat brain lysate/extract
10 % SDS-PAGE
Synaptophysin antibody (GTX100865) dilution: 1:10000



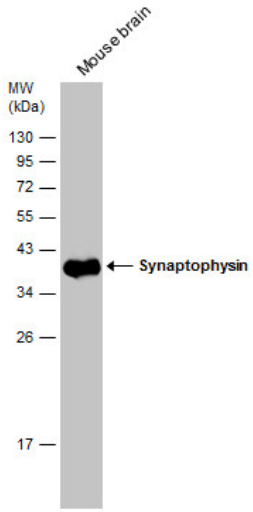
GTX100865 IHC-P Image

Immunohistochemical analysis of paraffin-embedded CL1-0 xenograft , using Synaptophysin(GTX100865) antibody at 1:100 dilution.



GTX100865 IHC-P Image

Synaptophysin antibody detects Synaptophysin protein at on rat fore brain by immunohistochemical analysis.
Sample: Paraffin-embedded rat fore brain.
Synaptophysin antibody (GTX100865) dilution: 1:500.



GTX100865 WB Image

Mouse tissue extract (50 µg) was separated by 12% SDS-PAGE, and the membrane was blotted with Synaptophysin antibody (GTX100865) diluted at 1:50000.

DataSheet - 3

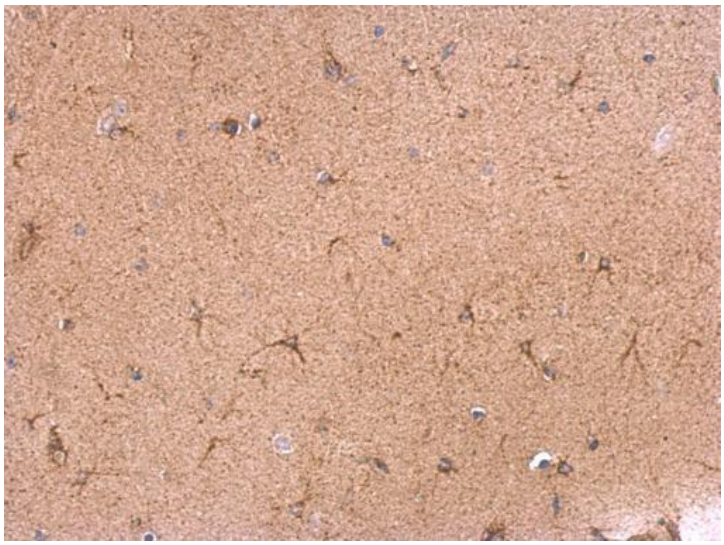
Catalog Number	GTX102127 Package:25 µl,100 µl
Product Name	VAMP1 antibody
Full Name	vesicle-associated membrane protein 1 (synaptobrevin 1)
Synonyms	DKFZp686H12131 antibody, SYB1 antibody, VAMP-1 antibody, VAMP1 antibody, synaptobrevin-1 antibody, vesicle-associated membrane protein 1 antibody, synaptobrevin 1 antibody, vesicle-associated membrane protein 1 (synaptobrevin 1) antibody
Product Description	Rabbit Polyclonal antibody to VAMP1 (vesicle-associated membrane protein 1 (synaptobrevin 1))
Background	Synaptobrevins/VAMPs, syntaxins, and the 25-kD synaptosomal-associated protein SNAP25 are the main components of a protein complex involved in the docking and/or fusion of synaptic vesicles with the presynaptic membrane. VAMP1 is a member of the vesicle-associated membrane protein (VAMP)/synaptobrevin family. Multiple alternative splice variants that encode proteins with alternative carboxy ends have been described, but the full-length nature of some variants has not been defined. [provided by RefSeq]
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Immunogen	Recombinant protein encompassing a sequence within the center region of human VAMP1. The exact sequence is proprietary.
Antigen Species	Human

Species Reactivity	Human, Mouse
Predicted Cross Reactivity species	Rat, Xenopus Tropicalis, Chicken, Rhesus Monkey, Bovine
Predict Reactivity Note	Rat (94%), Xenopus Tropicalis (86%), Chicken (93%), Rhesus Monkey (96%), Bovine (96%)
Applications	IHC-P, WB
Application Note	

	Suggested dilution	Reference
IHC (Formalin-fixed paraffin-embedded sections)	1:100-1:1000*	
Western blot	1:500-1:3000*	

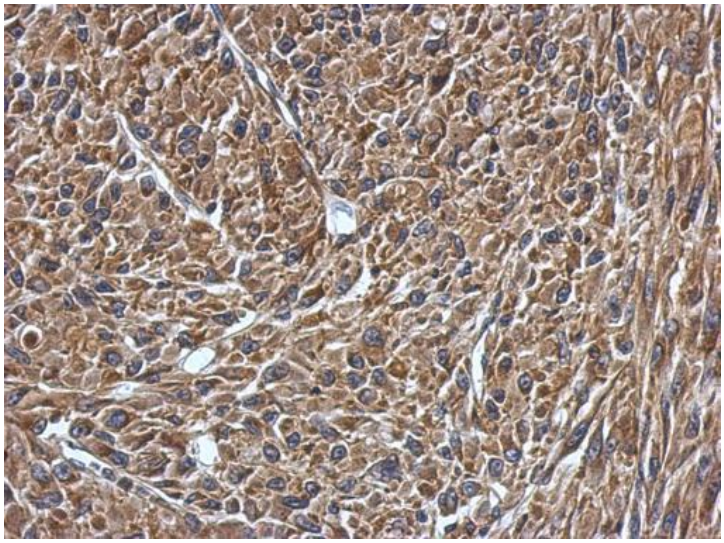
Not tested in other applications.
*Optimal dilutions/concentrations should be determined by the researcher.

Positive Controls	NT2D1
Predicted Target Size	13 kDa
Cellular Localization	Isoform 1: Cytoplasmic vesicle , secretory vesicle , synaptic vesicle membrane; Single-pass type IV membrane protein (By similarity) , Cell junction , synapse , synaptosome , Isoform 2: Cytoplasmic vesicle membrane; Single-pass type IV membrane protein (B
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.



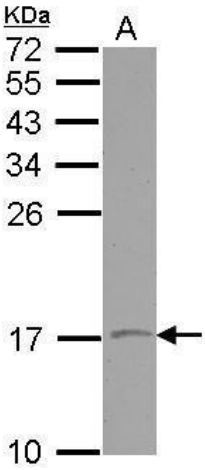
GTX102127 IHC-P Image

VAMP1 antibody detects VAMP1 protein at on mouse fore brain by immunohistochemical analysis.
Sample: Paraffin-embedded mouse fore brain.
VAMP1 antibody (GTX102127) dilution: 1:500.



GTX102127 IHC-P Image

Immunohistochemical analysis of paraffin-embedded U87 xenograft, using VAMP1(GTX102127) antibody at 1:500 dilution.



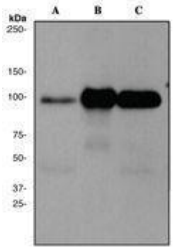
GTX102127 WB Image

Sample (30 ug of whole cell lysate)
A: NT2D1
15% SDS PAGE
GTX102127 diluted at 1:500

DataSheet - 4

Catalog Number	GTX61948
Product Name	PSD95 antibody [EP2652Y], N-term
Full Name	discs, large homolog 4 (Drosophila)
Synonyms	FLJ97752, SAP90, DLG4, FLJ98574, SAP-90, PSD95, SAP 90
Product Description	Rabbit monoclonal antibody [EP2652Y] to PSD95
Background	Postsynaptic Density protein 95 (PSD95) belongs to the membrane-associated guanylate kinase (MAGUK) family. As a scaffolding protein, PSD95 controls of receptor trafficking during synaptic plasticity by anchoring synaptic proteins. Specifically, PSD95 is necessary in synaptic plasticity associated with NMDA receptor signaling . After hetermultimerization with DLG2, PSD95 associates with cytoplasmic tail of NMDA receptor subunit and potassium channel clusters. PSD95 has been linked to autism, drug addiction, and learning
Host	Rabbit
Clonality	Monoclonal
Clone Name	EP2652Y
Isotype	IgG
Target	PSD95

Immunogen	A synthetic peptide corresponding to residues in the N-terminus of human PSD95 was used as an immunogen.
Antigen Species	Human
Species Reactivity	Human, Mouse, Rat
Applications	FACS, ICC/IF, IP, WB
Application Note	**Recommended Starting Dilutions:** For WB: Use at a dilution of 1:1000 - 5000 For ICC: Use at a dilution of 1:100 - 250 For IHC (PFA fixed): Use at an assay dependent concentration For FACS: Use at a dilution of 1:20 For IP: Use at a dilution of 1:10 Optimal working dilution for a specific application should be determined by the investigator.
Predicted Target Size	95
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	Stem Cell Development > Development > Ectoderm > Nervous system development



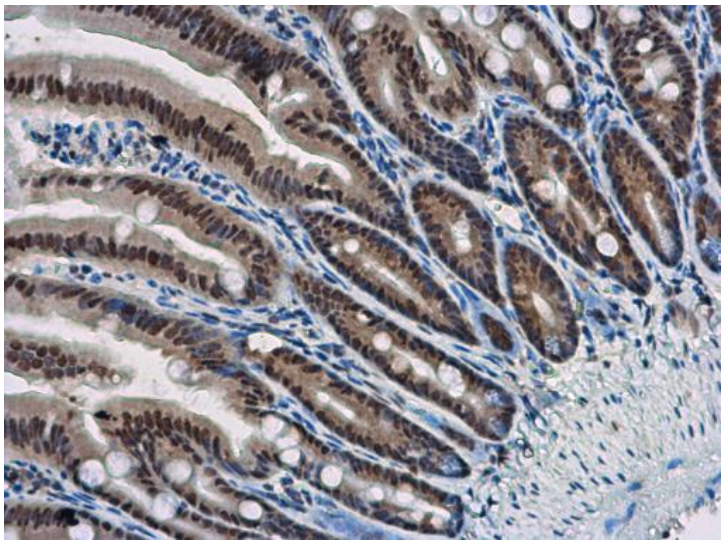
GTX61948 WB Image

A. Western blot analysis on (A) human brain (B) mouse brain (C) rat brain tissue lysates using anti-PSD95 RabMAb (cat. # GTX61948) dilution 1:2000.

DataSheet - 5

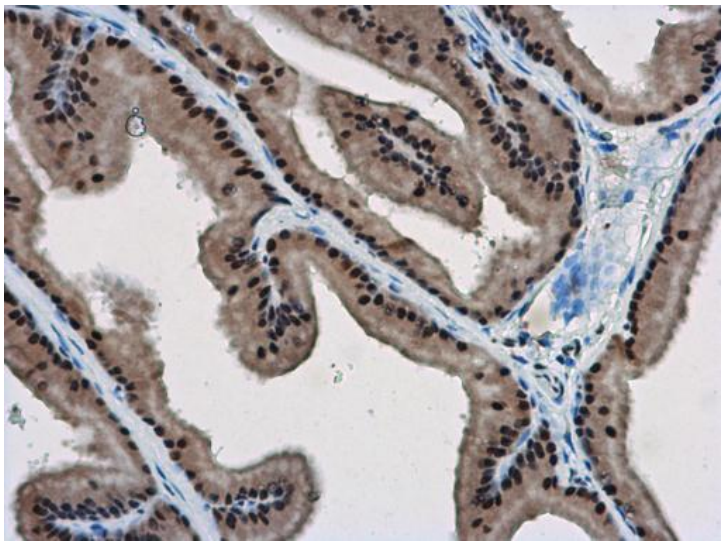
Catalog Number	GTX213110-01	Package:1 ml	Reference (38)
Product Name	Rabbit IgG antibody (HRP)		
Synonyms	antiRabbit IgG antibody, anti-Rabbit IgG antibody, Goat antiRabbit IgG HRP, Rabbit IgG secondary antibody, Goat anti-Rabbit IgG HRP, anti Rabbit IgG antibody, Goat anti Rabbit IgG HRP		
Product Description	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	<table><tr><th></th><th>Suggested dilution</th><th>Reference</th></tr><tr><td>Dot blot</td><td>Assay-dependent dilution</td><td></td></tr><tr><td>ELISA</td><td>Assay-dependent dilution</td><td></td></tr><tr><td>IHC (Formalin-fixed paraffin-embedded sections)</td><td>1:100-1:1000*</td><td></td></tr><tr><td>Western blot</td><td>Assay-dependent dilution</td><td></td></tr></table>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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