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Date : 2018/08/02

Catalog Number	GTX101648	Package:25 ul,100 ul	
Product Name	AChE antibody		
Full Name	acetylcholinesterase		
Synonyms	ARACHE antibody, N-ACHE antibody, YT antibody, ACHE antibody, Yt blood group antibody, acetylcholinesterase antibody, apoptosis-related acetylcholinesterase antibody		
Background	<p>Acetylcholinesterase hydrolyzes the neurotransmitter, acetylcholine at neuromuscular junctions and brain cholinergic synapses, and thus terminates signal transmission. It is also found on the red blood cell membranes, where it constitutes the Yt blood group antigen. Acetylcholinesterase exists in multiple molecular forms which possess similar catalytic properties, but differ in their oligomeric assembly and mode of cell attachment to the cell surface. It is encoded by the single ACHE gene, and the structural diversity in the gene products arises from alternative mRNA splicing, and post-translational associations of catalytic and structural subunits. The major form of acetylcholinesterase found in brain, muscle and other tissues is the hydrophilic species, which forms disulfide-linked oligomers with collagenous, or lipid-containing structural subunits. The other, alternatively spliced form, expressed primarily in the erythroid tissues, differs at the C-terminal end, and contains a cleavable hydrophobic peptide with a GPI-anchor site. It associates with the membranes through the phosphoinositide (PI) moieties added post-translationally.</p> <p>[provided by RefSeq]</p>		
Host	Rabbit		
Clonality	Polyclonal		
Isotype	IgG		
Immunogen	Recombinant protein encompassing a sequence within the C-terminus region of human AChE. The exact sequence is proprietary.		
Antigen Species	Human		
Species Reactivity	Human, Mouse, Rat		
Predicted Cross Reactivity species	Cat, Rhesus Monkey, Bovine, Guinea pig		
Predict Reactivity Note	Cat (95%), Rhesus Monkey (99%), Bovine (94%), Guinea pig (92%)		
Applications	ICC/IF, IHC-Fr, IHC-P, WB		
Application Note	<p>Immunocytochemistry/ Immunofluorescence (ICC/IF)</p> <p>IHC (Frozen sections)</p> <p>IHC (Formalin-fixed paraffin-embedded sections)</p> <p>Western Blot (WB)</p> <p>Not tested in other applications.</p> <p>*Optimal dilutions/concentrations should be determined by the researcher.</p>	<p>Suggested dilution</p> <p>1:100-1:1000*</p> <p>1:100-1:1000*</p> <p>1:100-1:1000*</p> <p>1:500-1:3000*</p>	<p>Reference</p>
Positive Controls	Raji , mouse brain , rat brain		
Predicted Target Size	68 kDa		
Cellular Localization	Cell junction , synapse , Secreted , Cell membrane; Peripheral membrane protein , Isoform T: Nucleus , Isoform H: Cell membrane; Lipid-anchor , GPI-anchor; Extracellular side , Cell junction , synapse , Secreted , Cell membrane , Isoform T: Nucleus , Isof		
Conjugation	Unconjugated		
Form Supplied	Liquid		
Purification	Purified by antigen-affinity chromatography.		
Concentration	0.73 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

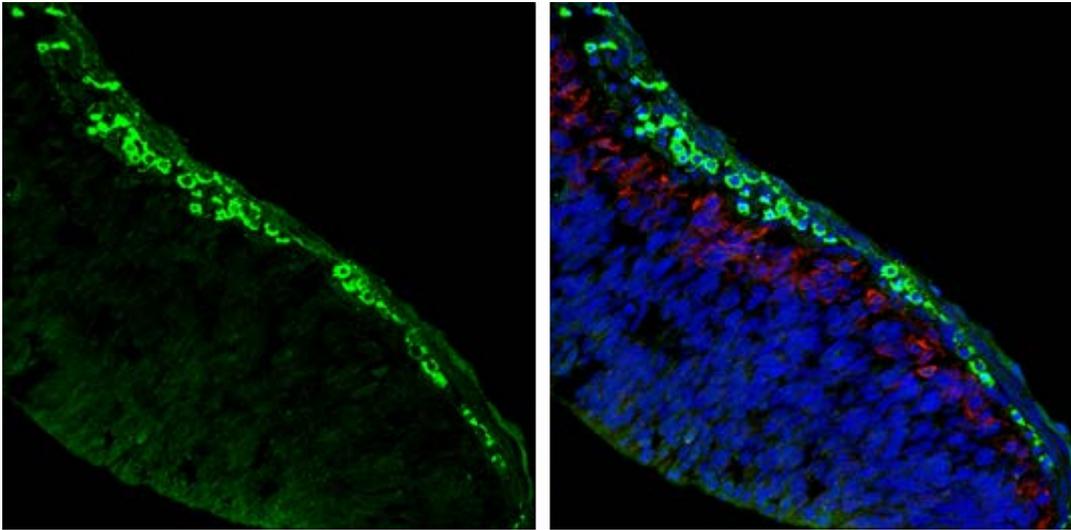
Keep as concentrated solution. Aliquot and store at -20°C or below. Avoid multiple freeze-thaw cycles.

Notes

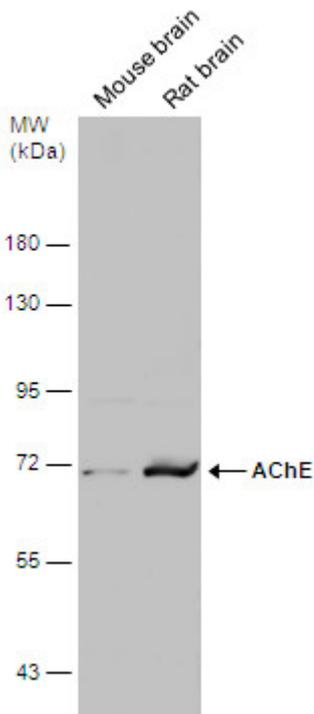
For *In vitro* laboratory use only. Not for any clinical, therapeutic, or diagnostic use in humans or animals. Not for animal or human consumption.

ResearchArea

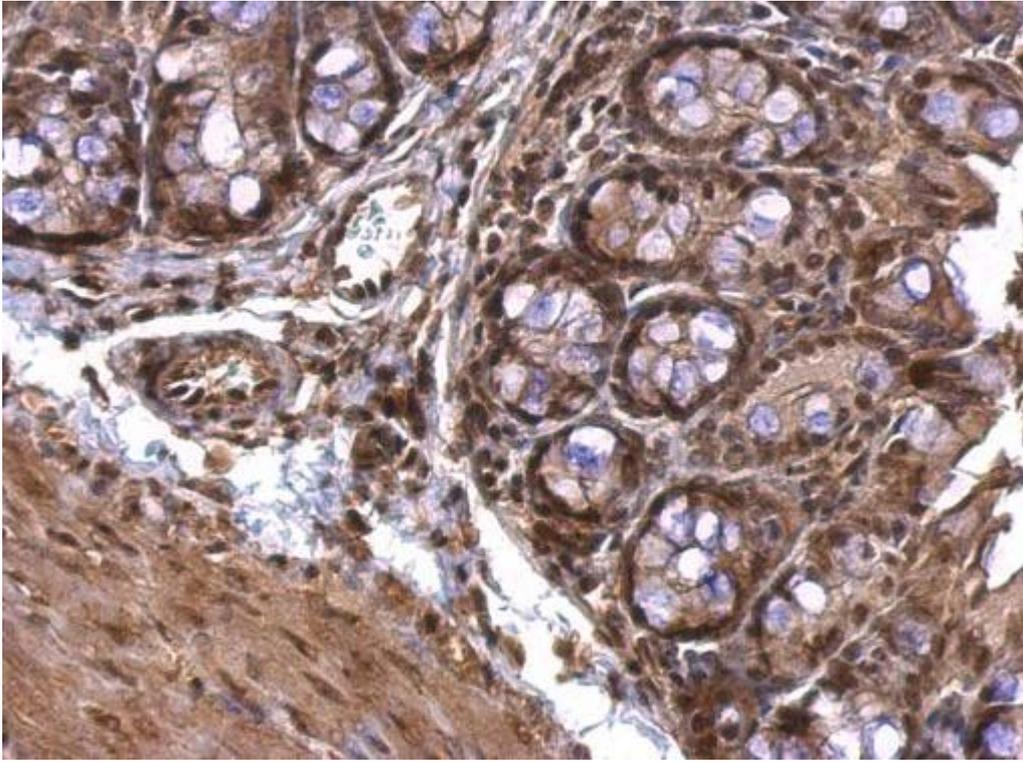
[Cancer](#) > [Type of cancer](#) > [Thyroid](#)
[Disease Related](#) > [Alzheimer's disease](#)
[Disease Related](#) > [Cardiovascular](#) > [Blood](#) > [Blood antigens](#)



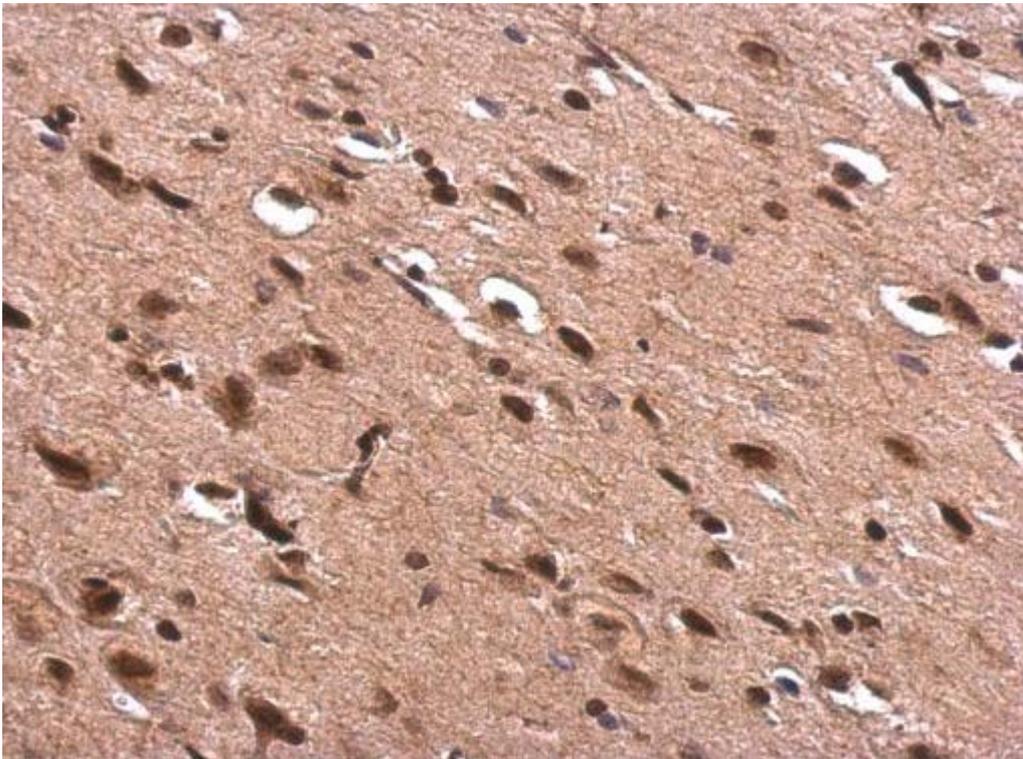
- GTX101648 IHC-Fr Image
- AChE antibody detects AChE protein expression by immunohistochemical analysis.
Sample: Frozen sectioned E13.5 Rat brain.
Green: AChE protein stained by AChE antibody (GTX101648) diluted at 1:250.
Red: beta Tubulin 3/ TUJ1, a mature neuron marker, stained by beta Tubulin 3/ TUJ1 antibody [GT11710] (GTX631836) diluted at 1:500.
Blue: Fluoroshield with DAPI (GTX30920).



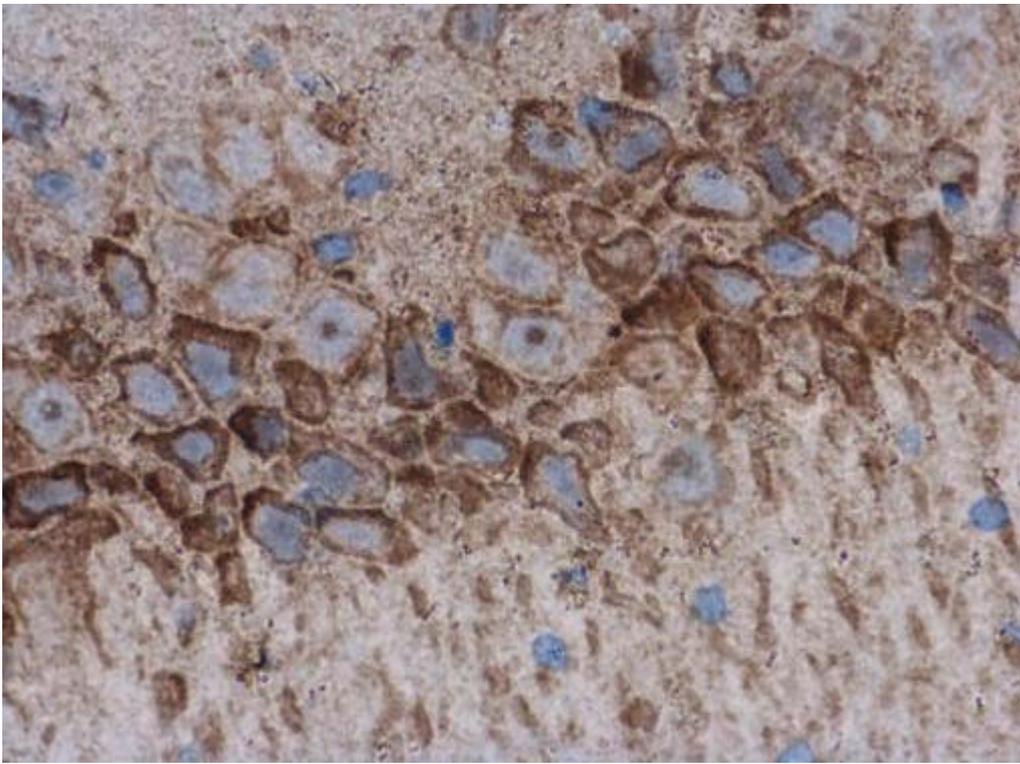
- GTX101648 WB Image
- Various tissue extracts (50 µg) were separated by 7.5% SDS-PAGE, and the membrane was blotted with AChE antibody (GTX101648) diluted at 1:500. The HRP-conjugated anti-rabbit IgG antibody (GTX213110-01) was used to detect the primary antibody.



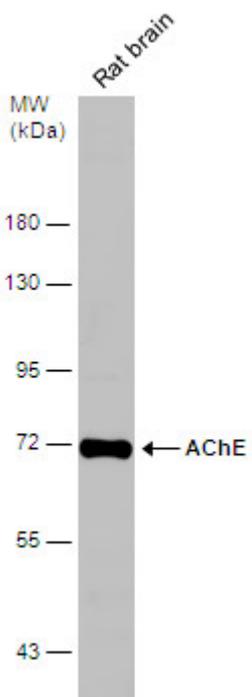
- GTX101648 IHC-P Image
- AChE antibody detects AChE protein at nucleus on mouse colon by immunohistochemical analysis.
Sample: Paraffin-embedded mouse colon.
AChE antibody (GTX101648) dilution: 1:500.



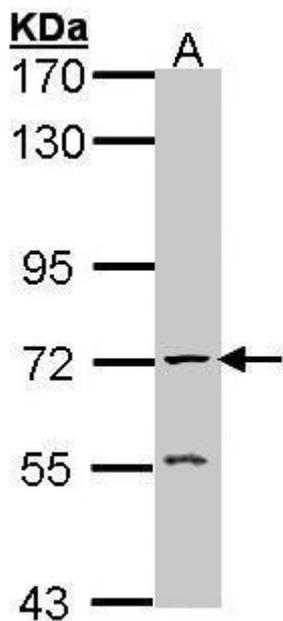
- GTX101648 IHC-P Image
- AChE antibody detects AChE protein at nucleus on rat fore brain by immunohistochemical analysis.
Sample: Paraffin-embedded rat fore brain.
AChE antibody (GTX101648) dilution: 1:500.



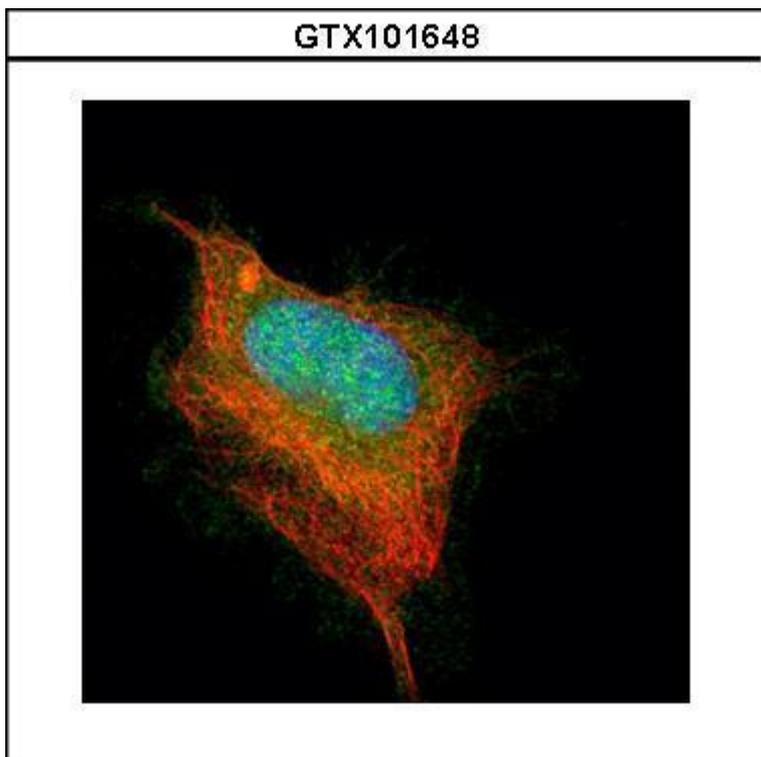
- GTX101648 IHC-P Image
- AChE antibody detects AChE protein at cytoplasm and nucleus in rat brain by immunohistochemical analysis.
Sample: Paraffin-embedded rat brain.
AChE antibody (GTX101648) diluted at 1:500.



- GTX101648 WB Image
- Rat tissue extract (50 μ g) was separated by 7.5% SDS-PAGE, and the membrane was blotted with AChE antibody (GTX101648) diluted at 1:500.



- GTX101648 WB Image
- Sample (30 μ g of whole cell lysate)
 A: Raji
 7.5% SDS PAGE
 GTX101648 diluted at 1:1000
 The HRP-conjugated anti-rabbit IgG antibody (GTX213110-01) was used to detect the primary antibody.



- GTX101648 ICC/IF Image
- Confocal immunofluorescence analysis (Olympus FV10i) of paraformaldehyde-fixed HeLa, using AChE(GTX101648) antibody (Green) at 1:500 dilution. Alpha-tubulin filaments were labeled with GTX11304 (Red) at 1:2500.