

Product datasheet for **TA308775**

Acetylcholinesterase (ACHE) Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	IF, IHC, WB
Recommended Dilution:	ICC/IF:1:100-1:1000; IHC:1:100-1:1000; WB:1:500-1:3000
Reactivity:	Human (Predicted: Rat, Feline, Xenopus, Zebrafish, Bovine, Guinea Pig, Rhesus Monkey)
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Synthetic peptide corresponding to a region within amino acids 551 and 614 of AChE (Uniprot ID#P22303)
Formulation:	0.1M Tris, 0.1M Glycine, 10% Glycerol (pH7). 0.01% Thimerosal was added as a preservative.
Concentration:	lot specific
Purification:	Purified by antigen-affinity chromatography.
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	68 kDa
Gene Name:	acetylcholinesterase (Cartwright blood group)
Database Link:	NP_000656 Entrez Gene 83817 Rat Entrez Gene 43 Human P22303



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Background:

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. [provided by RefSeq]

Synonyms:

ACEE; ARACHE; N-ACHE; YT

Note:

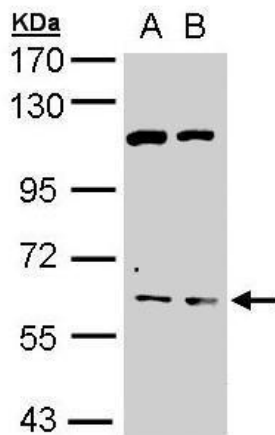
Seq homology of immunogen across species: Rat (93%), Zebrafish (86%), *Xenopus laevis* (85%), Cat (100%), Rhesus Monkey (100%), Bovine (100%), Guinea pig (100%)

Protein Families:

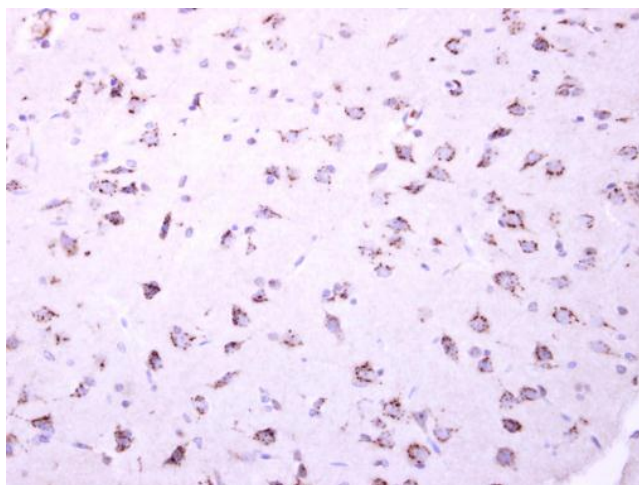
Druggable Genome

Protein Pathways:

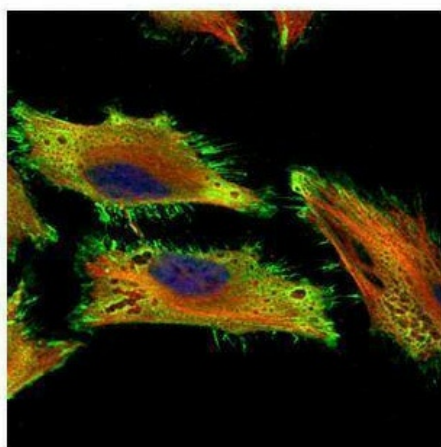
Glycerophospholipid metabolism

Product images:

Sample (30 ug of whole cell lysate). A: Hep G2. B: Molt-4. 7.5% SDS PAGE. TA308775 diluted at 1:500



AChE antibody [C3], C-term detects AChE protein at cytoplasm dot-like staining on mouse fore brain by immunohistochemical analysis. Sample: Paraffin-embedded mouse fore brain. AChE antibody [C3], C-term (TA308775) dilution: 1:250.



Confocal immunofluorescence analysis (Olympus FV10i) of paraformaldehyde-fixed HeLa, using AChE (TA308775) antibody (Green) at 1:500 dilution. Alpha-tubulin filaments were labeled with anti-alpha tubulin antibody (Red) at 1:2000.