

Summary

Production Name	AChE Rabbit Polyclonal Antibody
Description	Rabbit Polyclonal Antibody
Host	Rabbit
Application	IHC,WB,ELISA
Reactivity	Human, Mouse, Rat

Performance

Conjugation	Unconjugated
Modification	Unmodified
lsotype	lgG
Clonality	Polyclonal
Form	Liquid
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw
	cycles.
Buffer	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% New type preservative N.
Purification	Affinity purification

Immunogen

Gene Name	ACHE
Alternative Names	ACHE; Acetylcholinesterase; AChE
Gene ID	43.0
SwissProt ID	P22303.The antiserum was produced against synthesized peptide derived from human
	AChE. AA range:536-585

Application

Dilution Ratio	WB 1:500 - 1:2000. IHC 1:100 - 1:300. ELISA: 1:40000
Molecular Weight	70kD

Background

Product Name: AChE Rabbit Polyclonal Antibody Catalog #: APRab06492



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 posttranslational 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, alternativelycatalytic activity: Acetylcholine + H(2)O = choline + acetate., disease: Behaves as an amyloid-promoting factor to promote the formation of amyloid plagues in Alzheimer disease, function: Terminates signal transduction at the neuromuscular junction by rapid hydrolysis of the acetylcholine released into the synaptic cleft. Role in neuronal apoptosis.,online information:Acetylcholinesterase entry,online information:Blood group antigen gene mutation database, polymorphism: ACHE is responsible for the Yt blood group system. The molecular basis of the Yt(a)=Yt1/Yt(b)=Yt2 blood group antigens is a single variation in position 353; His-353 corresponds to Yt(a) and the rare variant with Asn-353 to Yt(b), similarity: Belongs to the type-B carboxylesterase/lipase family, subcellular location: Only observed in apoptotic nuclei, subunit: Interacts with PRIMA1. The interaction with PRIMA1 is required to anchor it to the basal lamina of cells and organize into tetramers (By similarity). Isoform H generates GPI-anchored dimers; disulfide linked. Isoform T generates multiple structures, ranging from monomers and dimers to collagen-tailed and hydrophobic-tailed forms, in which catalytic tetramers are associated with anchoring proteins that attach them to the basal lamina or to cell membranes. In the collagen-tailed forms, isoform T subunits are associated with a specific collagen, COLQ, which triggers the formation of isoform T tetramers, from monomers and dimers. Isoform R may be monomeric., tissue specificity: Isoform H is highly expressed in erythrocytes.,

Research Area

Glycerophospholipid metabolism;

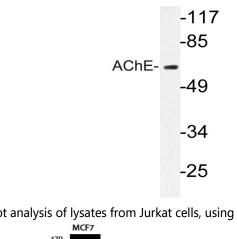
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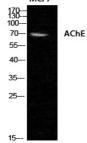
Immunohistochemistry analysis of AChE antibody in paraffin-embedded human brain tissue.

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Western Blot analysis of MCF7 cells using AChE Polyclonal Antibody diluted at 1: 1000

Note

For research use only.