Product datasheet

Anti-Acetylcholinesterase/ACHE Antibody

Catalog Number: *PB0382*

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Basic Information

Product Name	Anti-Acetylcholinesterase/ACHE Antibody
Gene Name	ACHE
Source	Rabbit
Clonality	Polyclonal
Isotype	IgG
Species Reactivity	human, mouse, rat
Tested Application	WB
Contents	500 ug/ml antibody with PBS, 0.02% NaN3, 1 mg/ml BSA and 50% glycerol.
Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of human ACHE different from the related mouse and rat sequences by one amino acid.
Concentration	500 ug/ml
Purification	Immunogen affinity purified.
Observed MW	68 kDa
Dilution Ratios	Western blot (WB):1:500-2000

Storage

12 months from date of receipt，-20℃ as supplied.

Background Information

ACHE is also known as Acetylcholinesterase. And 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-

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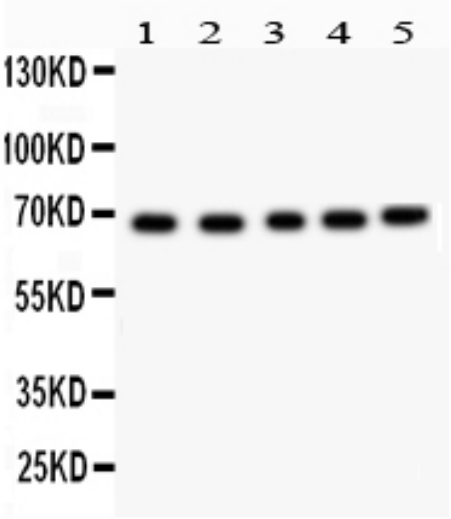
translationally.

Reference

Anti-Acetylcholinesterase/ACHE Antibody被引用在3文献中。

Selected Validation Data



Western blot analysis of Acetylcholinesterase/ACHE using anti-Acetylcholinesterase/ACHE antibody (PB0382). The sample well of each lane was loaded with 30 ug of sample under reducing conditions.
Lane 1: Rat Kidney tissue lysates,
Lane 2: Mouse Liver tissue lysates,
Lane 3: HELA whole cell lysates,
Lane 4: PANC whole cell lysates,
Lane 5: COLO320 whole cell lysates.
After electrophoresis, proteins were transferred to a membrane. Then the membrane was incubated with rabbit anti-Acetylcholinesterase/ACHE antigen affinity purified polyclonal antibody (PB0382) at a dilution of 1:1000 and probed with a goat anti-rabbit IgG-HRP secondary antibody (Catalog # BA1054). The signal is developed using ECL Plus Western Blotting Substrate (Catalog # AR1197). A specific band was detected for Acetylcholinesterase/ACHE at approximately 68 kDa. The expected band size for Acetylcholinesterase/ACHE is at 68 kDa.