产品名称：AChE Rabbit Polyclonal Antibody
产品货号：APRab06493

产品概述（Summary）

产品名称（Production Name）	AChE Rabbit Polyclonal Antibody
描述（Description）	Rabbit polyclonal Antibody
宿主（Host）	Rabbit
应用（Application）	WB,ELISA
种属反应性（Reactivity）	Human,Mouse,Rat

产品性能（Performance）

偶联物（Conjugation）	Unconjugated
修饰（Modification）	Unmodified
同种型（Isotype）	IgG
克隆（Clonality）	Polyclonal
形式（Form）	Liquid
存放说明（Storage）	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
储存溶液（Buffer）	Liquid in PBS containing 50% glycerol, 0.5% protective protein and 0.02% New type preservative N.
纯化方式（Purification）	Affinity purification

免疫原信息（Immunogen）

基因名（Gene Name）	ACHE
别名（Alternative Names）	ACHE; Acetylcholinesterase; AChE
基因 ID（Gene ID）	43.0
蛋白 ID（SwissProt ID）	P22303.The antiserum was produced against synthesized peptide derived from human ACHE. AA range:551-600

产品应用（Application）

稀释比（Dilution Ratio）	WB 1:500-1:2000,ELISA 1:5000-1:10000
蛋白分子量（Molecular Weight）	70kDa

研究背景（Background）

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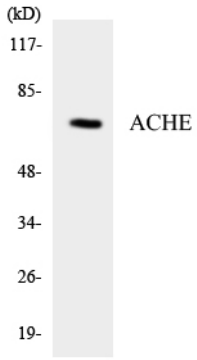
Acetylcholinesterase hydrolyzes the neurotransmitter, acetylcholine at neuromuscular junctions and brain cholinergic synapses, and thus terminates signal transmission. It is also found on the red blood cell membranes, where it constitutes the Yt blood group antigen. Acetylcholinesterase exists in multiple 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, alternativelycatalytic activity:Acetylcholine + H(2)O = choline + acetate.,disease:Behaves as an amyloid-promoting factor to promote the formation of amyloid plaques 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.,

研究领域（Research Area）

Glycerophospholipid metabolism;

图片（Image Data）



Western blot analysis of the lysates from HT-29 cells using ACHE antibody.

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注意事项（Note）

For research use only .