

AChE Rabbit pAb

CatalogNo: YT0078

Key Features

Host Species

- Rabbit

Reactivity

- Human, Mouse, Rat

Applications

- WB, IHC, IF, ELISA

MW

- 70kD (Observed)

Isotype

- IgG

Recommended Dilution Ratios

WB 1:500-1:2000

IHC 1:100-1:300

ELISA 1:40000

IF 1:50-200

Storage

Storage*

-15°C to -25°C/1 year (Do not lower than -25°C)

Formulation

Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Basic Information

Clonality

Polyclonal

Immunogen Information

Immunogen

The antiserum was produced against synthesized peptide derived from human AChE. AA range: 536-585

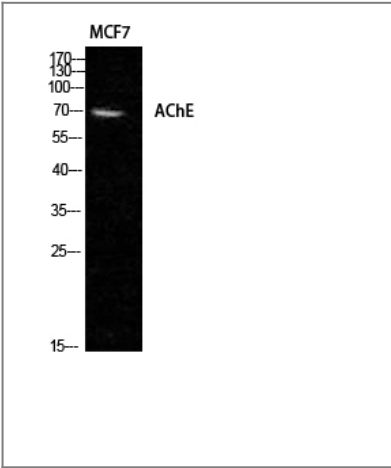
Specificity

AChE Polyclonal Antibody detects endogenous levels of AChE protein.

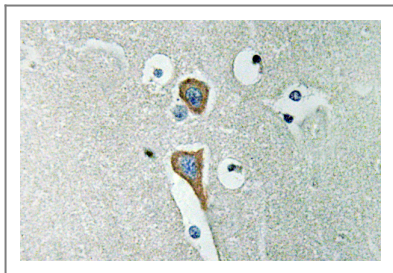
Target Information

Gene name	ACHE		
Protein Name	Acetylcholinesterase		
	Organism	Gene ID	UniProt ID
	Human	43 ;	P22303 ;
	Mouse	11423 ;	P21836 ;
	Rat	83817 ;	P37136 ;
Cellular Localization	Cell junction, synapse . Secreted . Cell membrane ; Peripheral membrane protein .; [Isoform T]: Nucleus. Only observed in apoptotic nuclei.; [Isoform H]: Cell membrane ; Lipid-anchor, GPI-anchor ; Extracellular side .		
Tissue specificity	Isoform H is highly expressed in erythrocytes.		
Function	Catalytic 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.,		

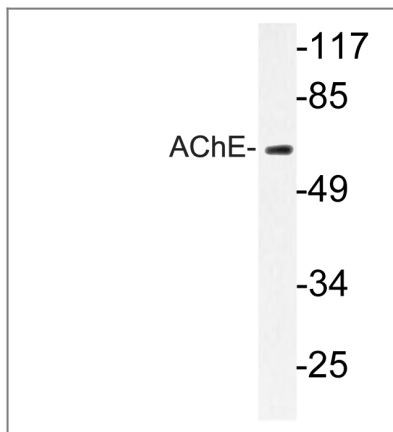
| Validation Data



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



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



Western blot analysis of lysates from Jurkat cells, using AChE antibody.

| Contact information

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Please scan the QR code
to access additional
product information:
AChE Rabbit pAb

For Research Use Only. Not for Use in Diagnostic Procedures.

[Antibody](#) | [ELISA Kits](#) | [Protein](#) | [Reagents](#)