

ACHE Antibody (N-term)

Purified Rabbit Polyclonal Antibody (Pab) Catalog # AP7853a

Product Information

Application IHC-P, FC, IF, WB, E

Primary Accession P22303

Reactivity Human, Mouse

HostRabbitClonalityPolyclonalIsotypeRabbit IgGCalculated MW67796Antigen Region147-175

Additional Information

Gene ID 43

Other Names Acetylcholinesterase, AChE, ACHE

Target/Specificity This ACHE antibody is generated from rabbits immunized with a KLH

conjugated synthetic peptide between 147-175 amino acids from the

N-terminal region of human ACHE.

Dilution IHC-P~~1:100~500 FC~~1:10~50 IF~~1:1000 E~~Use at an assay

dependent concentration.

Format Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide.

This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation

followed by dialysis against PBS.

Storage Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store

at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions ACHE Antibody (N-term) is for research use only and not for use in diagnostic

or therapeutic procedures.

Protein Information

Name ACHE (HGNC:108)

Function Hydrolyzes rapidly the acetylcholine neurotransmitter released into the

synaptic cleft allowing to terminate the signal transduction at the

neuromuscular junction. Role in neuronal apoptosis.

Cellular Location Synapse. Secreted. Cell membrane; Peripheral membrane protein [Isoform

Isoform H is highly expressed in erythrocytes.

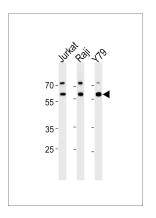
Background

Acetylcholinesterase hydrolyzes the neurotransmitter, acetylcholine at neuromuscular junctions and brain cholinergic synapses, and thus terminates signal transmission. The Protein 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. 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.

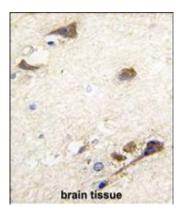
References

Liang, D., FEBS J. 276 (1), 94-108 (2009) Scacchi, R., Am. J. Med. Genet. B Neuropsychiatr. Genet. (2008)

Images

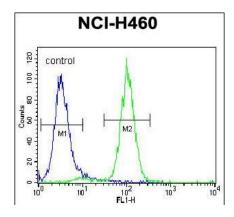


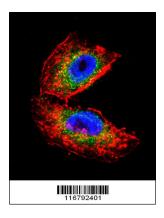
ACHE Antibody (N-term) (Cat. #AP7853a) western blot analysis in Jurkat, Raji, Y79 cell line lysates (35ug/lane). This demonstrates the ACHE antibody detected the ACHE protein (arrow).



Formalin-fixed and paraffin-embedded human brain tissue reacted with ACHE antibody (N-term), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.

ACHE Antibody (N-term) (Cat. #AP7853a) flow cytometric analysis of NCI-H460 cells (right histogram) compared to a negative control cell (left histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.





Confocal immunofluorescent analysis of ACHE Antibody (N-term)(Cat#AP7853a) with NCI-H460 cell followed by Alexa Fluor 488-conjugated goat anti-rabbit lgG (green). Actin filaments have been labeled with Alexa Fluor 555 phalloidin (red). DAPI was used to stain the cell nuclear (blue).

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.