BT LAB
Bioassay Technology Laboratory
Optimize Your Research

ACHE Monoclonal Antibody

Description

Product type	Antibody
Code	BT-MCA4103
Host	Mouse
Isotype	Mouse IgG1
Size	100μL, 50μL
Immunogen	Purified recombinant fragment of human ACHE expressed in E. Coli.
Mol wt	67.8kDa
Species reactivity	Human,Mouse,Monkey,Rat
Clonality	Monoclonal
Recommended application	WB,IHC,FCM
Concentration	N/A
Full name	N/A
Synonyms	YT;ACEE;ARACHE;N-ACHE

This product is for research use only, not for use in human, therapeutic or diagnostic procedure.

Background

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-translationally. AChE activity may constitute a sensitive biomarker of RBC ageing in vivo, and thus, may be of aid in understanding the effects of transfusion.

Recommended Dilution

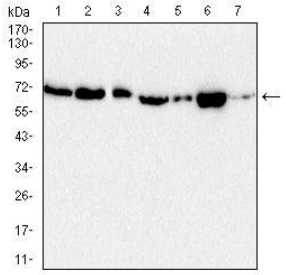
WB: 1:500 - 1:2000

IHC-p: 1:200 - 1:1000

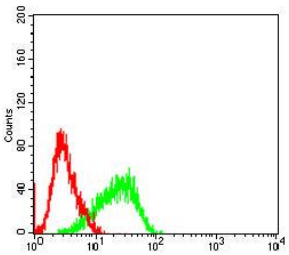
FCM: 1:200 - 1:400

Not yet tested in other applications.

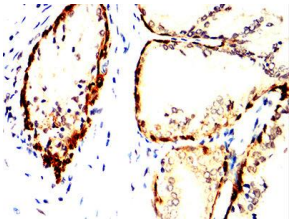
Images



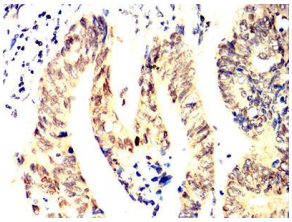
Western blot analysis using ACHE mouse mAb against PC-12 (1), Hela (2),mouse brai (3),NIH/3T3 (4),COS7 (5),Jurkat (6) and Raji (7) cell lysate.



Flow cytometric analysis of NIH/3T3 cells using ACHE mouse mAb (green) and negative control (red).



Immunohistochemical analysis of paraffin-embedded prostate cancer tissues using ACHE mouse mAb with DAB staining.



Immunohistochemical analysis of paraffin-embedded rectum cancer tissues using ACHE mouse mAb with DAB staining.

Storage

Store at 4°C short term. Aliquot and store at -20°C long term.

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