

ACHE monoclonal antibody

Catalog: MB23417

Host: Mouse

Reactivity: Human, Mouse, Monkey, Rat

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.

Product:

Purified antibody in PBS with 0.05% sodium azide

Molecular Weight:

67.8kDa

Swiss-Prot:

P22303

Purification&Purity:

The antibody was affinity-purified from mouse ascites by affinity-chromatography using epitope-specific immunogen and the purity is > 95% (by SDS-PAGE).

Applications:

WB:1/500 - 1/2000 IHC:1/200 - 1/1000 FC:1/200 -

1/400

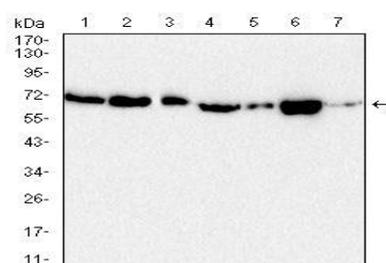
Storage&Stability:

Store at 4 °C short term. Aliquot and store at -20 °C long term. Avoid freeze-thaw cycles.

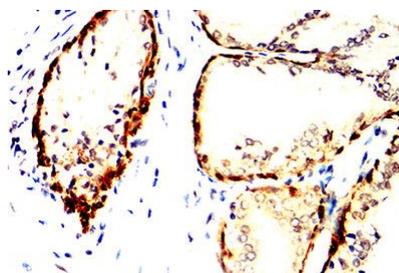
Isotype:

Mouse IgG1

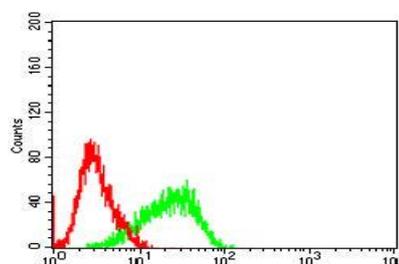
DATA:



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



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



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

Note:

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PRODUCT DATA SHEET

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For research use only, not for use in diagnostic procedure.

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