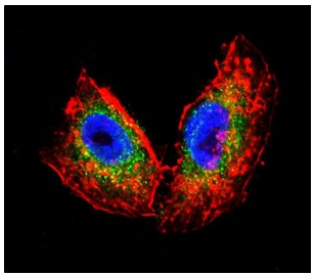
Acetylcholinesterase Antibody / ACHE (F50830)

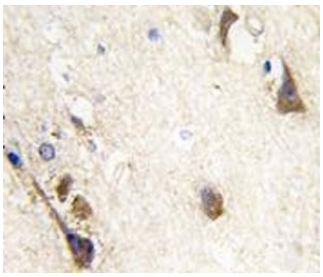
Catalog No.	Formulation	Size
F50830-0.4ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.4 ml
F50830-0.08ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.08 ml

Bulk quote request

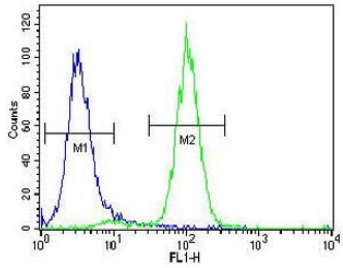
Availability	1-3 business days
Species Reactivity	Human
Predicted Reactivity	Guinea pig
Format	Purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit Ig
Purity	Purified
UniProt	P22303
Localization	Cytoplasmic, membranous
Applications	Western Blot : 1:1000 Immunohistochemistry (FFPE) : 1:10-1:50 Flow Cytometry : 1:10-1:50 Immunofluorescence : 1:10-1:50
Limitations	This Acetylcholinesterase antibody is available for research use only.



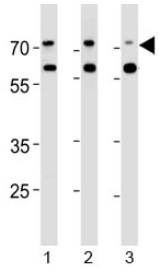
Confocal immunofluorescent analysis of Acetylcholinesterase antibody with human NCI-H460 cells followed by Alexa Fluor 488-conjugated goat anti-rabbit IgG (green). Actin filaments labeled with Alexa Fluor 555 Phalloidin (red). DAPI used as a nuclear counterstain (blue).



IHC analysis of FFPE human brain tissue stained with Acetylcholinesterase antibody



Acetylcholinesterase antibody flow cytometric analysis of human NCI-H460 cells (right histogram) compared to a negative control (left histogram). FITC-conjugated goat-anti-rabbit secondary Ab was used for the analysis.



Acetylcholinesterase antibody western blot analysis in human 1) Jurkat, 2) Raji and 3) Y79 lysate. Predicted molecular weight ~68 kDa with a possible ~58 kDa isoform.

Description

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.

Application Notes

Titration of the Acetylcholinesterase antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

A portion of amino acids 147-175 from the human protein was used as the immunogen for this Acetylcholinesterase antibody.

Storage

Aliquot the Acetylcholinesterase antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.