10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

ACHE Antibody (C-term)

Mouse Monoclonal Antibody (Mab)
Catalog # AM2184b

Product Information

Application	WB, E
Primary Accession	P22303
Reactivity	Human, Rat, Mouse, Green Monkey
Host	Mouse
Clonality	Monoclonal
Isotype	IgG1
Clone Names	684CT8.3.4
Calculated MW	67796
Antigen Region	587-611

Additional Information

Gene ID	43
Other Names	Acetylcholinesterase, AChE, ACHE
Target/Specificity	This ACHE antibody is generated from mouse immunized with a KLH conjugated synthetic peptide between 587-611 amino acids from the C-terminal region of human ACHE.
Dilution	WB~~1:2000 E~~Use at an assay dependent concentration.
Format	Purified monoclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein G column, 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 (C-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

H]: Cell membrane; Lipid- anchor, GPI-anchor; Extracellular side

Tissue Location Isoform H is highly expressed in erythrocytes.

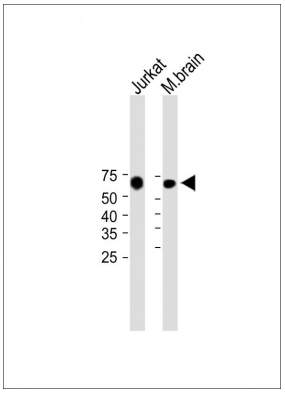
Background

Terminates signal transduction at the neuromuscular junction by rapid hydrolysis of the acetylcholine released into the synaptic cleft. Role in neuronal apoptosis.

References

Soreq H., et al. Proc. Natl. Acad. Sci. U.S.A. 87:9688-9692(1990).
Karpel R., et al. Exp. Cell Res. 210:268-277(1994).
Yang L., et al. Submitted (JAN-2001) to the EMBL/GenBank/DDBJ databases.
Ota T., et al. Nat. Genet. 36:40-45(2004).
Totoki Y., et al. Submitted (APR-2005) to the EMBL/GenBank/DDBJ databases.

Images



All lanes : Anti-ACHE Antibody (C-term) at 1:2000 dilution
Lane 1: Jurkat whole cell lysate Lane 2: Mouse brain lysate
Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Mouse IgG/A/M(H/L), Peroxidase conjugated at 1/2000 dilution. Observed band size : 72kDa
Blocking/Dilution buffer: 5% NFDM/TBST.

Citations

- Extradural Contralateral C7 Nerve Root Transfer in a Cervical Posterior Approach for Treating Spastic Limb Paralysis: A Cadaver Feasibility Study
- The feasibility study of extradural nerve anastomosis technique for canine bladder reinnervation after spinal cord injury.