ACHE monoclonal antibody (M02), clone 2C3

Catalog # H00000043-M02 Size 100 ug

Specification

Product Description	Mouse monoclonal antibody raised against a partial recombinant ACHE.
Immunogen	ACHE (NP_000656, 515 a.a. ~ 614 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Sequence	ARTGDPNEPRDPKAPQWPPYTAGAQQYVSLDLRPLEVRRGLRAQACAFWNRFLPKLLSATDTL DEAERQWKAEFHRWSSYMVHWKNQFDHYSKQDRCSDL
Host	Mouse
Reactivity	Human
Interspecies Antigen Sequence	Mouse (91)
Isotype	IgG2a Kappa
Quality Control Testing	Antibody Reactive Against Recombinant Protein.
Storage Buffer	In 1x PBS, pH 7.4
Storage Instruction	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Applications

- ELISA

Gene Info — ACHE

Entrez GeneID	43
GeneBank Accession#	NM_000665

Protein Accession#	NP_000656
Gene Name	ACHE
Gene Alias	ARACHE, N-ACHE, YT
Gene Description	acetylcholinesterase (Yt blood group)
Omim ID	100740 112100
Gene Ontology	Hyperlink
Gene Summary	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. [provided by RefSeq
Other Designations	acetylcholinesterase|apoptosis-related acetylcholinesterase

Pathway

- Glycerophospholipid metabolism

Disease

- Abortion
- Alzheimer disease
- Cardiovascular Diseases
- Cognition
- Diabetes Mellitus
- Edema
- Genetic Predisposition to Disease

- Hypercholesterolemia
- Mental Disorders
- Schizophrenia
- Schizophrenic Psychology
- Thyroid Neoplasms
- Weight Gain