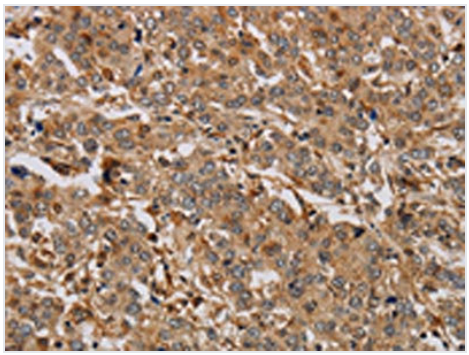
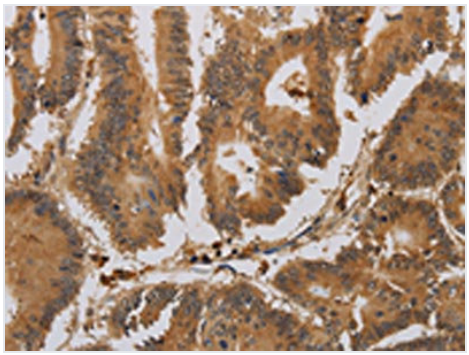
ACHE Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

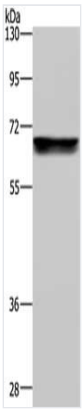
Product Name	ACHE, Polyclonal Antibody
Full Product Name	ACHE Antibody
Product Gene Name	anti-ACHE antibody
Product Synonym Names	acetylcholinesterase
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Form/Format	Liquid; In Phosphate Buffered Saline, pH 7.4, 0.05% NaN3, and 40% Glycerol
Purity/Purification	Antigen Affinity Purification
Preparation and Storage	Upon receipt, store at -20 degree C or -80 degree C. Avoid repeated freeze.
Molecular Weight	67,796 Da
Chromosome Location	Chromosome: 7; NC_000007.13 (100487615..100493541, complement). Location: 7q22
OMIM	100740
3D Structure	ModBase 3D Structure for P22303
Immunogen	Synthetic peptide of human ACHE
Immunogen Species	Human
Conjugate	Non-conjugated
Product Categories/Family for anti-ACHE antibody	Neuroscience
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-ACHE antibody	ELISA (EIA), Western Blot (WB), Immunohistochemistry (IHC)
Application Notes for anti-ACHE antibody	ELISA: 1:1000-1:2000 WB: 1:200-1:1000 IHC: 1:25-1:100
Related Product Information for anti-ACHE antibody	MBS7126760 is an antibody targeting ACHE. Also known as ACHE Antibody. Reactive in Human, Mouse, Rat. Host: Rabbit.
Other Notes	Small volumes of anti-ACHE antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.



Immunohistochemistry (IHC)-Paraffin of anti-ACHE antibody
The image on the left is immunohistochemistry of paraffin-embedded Human liver cancer tissue using MBS7126760(ACHE Antibody) at dilution 1/20, on the right is treated with synthetic peptide. (Original magnification: ×200)



Immunohistochemistry (IHC)-Paraffin of anti-ACHE antibody
The image on the left is immunohistochemistry of paraffin-embedded Human colon cancer tissue using MBS7126760(ACHE Antibody) at dilution 1/20, on the right is treated with synthetic peptide. (Original magnification: ×200)



SDS-Page of anti-ACHE antibody
Gel: 8%SDS-PAGE, Lysate: 40 ug, Lane: Raji cells, Primary antibody: MBS7126760(ACHE Antibody) at dilution 1/250, Secondary antibody: Goat anti rabbit IgG at 1/8000 dilution, Exposure time: 2 minutes

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for ACHE. It may not necessarily be applicable to this product.

NCBI GI #	4557239
NCBI GeneID	43
NCBI Accession #	NP_000656.1
UniProt Primary Accession #	P22303
UniProt Secondary Accession #	Q16169; Q29S23; Q2M324; Q504V3; Q53F46; Q86TM9; Q86YX9; Q9BXP7; A4D2E2; B7ZKZ0; D6W5X7
UniProt Related Accession #	P22303
GenBank Nucleotide #	NM_000665.3
NCBI Official Full Name	acetylcholinesterase isoform E4-E6
NCBI Official Synonym Full Names	acetylcholinesterase
NCBI Official Symbol	ACHE
NCBI Official Synonym Symbols	YT; ACEE; ARACHE; N-ACHE
UniProt Protein Name	Acetylcholinesterase
Protein Family	Achelase
UniProt Gene Name	ACHE

UniProt Synonym Gene Names	AChE
UniProt Entry Name	ACES_HUMAN
NCBI Protein Information	acetylcholinesterase; Yt blood group; apoptosis-related acetylcholinesterase
NCBI Summary for ACHE	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, Jul 2008]
UniProt Comments for ACHE	ACHE: Terminates signal transduction at the neuromuscular junction by rapid hydrolysis of the acetylcholine released into the synaptic cleft. Role in neuronal apoptosis. Belongs to the type-B carboxylesterase/lipase family. 4 isoforms of the human protein are produced by alternative splicing. Protein type: Hydrolase; Membrane protein, GPI anchor; Lipid Metabolism - glycerophospholipid; EC 3.1.1.7 Chromosomal Location of Human Ortholog: 7q22 Cellular Component: Golgi apparatus; extracellular space; cell surface; membrane; perinuclear region of cytoplasm; extracellular region; plasma membrane; synapse; basal lamina; neuromuscular junction; nucleus; cell junction Molecular Function: collagen binding; serine hydrolase activity; protein binding; protein homodimerization activity; protein self-association; cholinesterase activity; hydrolase activity; beta-amyloid binding; laminin binding; acetylcholinesterase activity; acetylcholine binding Biological Process: negative regulation of synaptic transmission, cholinergic; nervous system development; muscle development; acetylcholine catabolic process in synaptic cleft; acetylcholine catabolic process; glycerophospholipid biosynthetic process; osteoblast development; synaptic transmission; cell proliferation; synaptogenesis; positive regulation of protein secretion; amyloid precursor protein metabolic process; retina development in camera-type eye; phospholipid metabolic process; neurotransmitter receptor biosynthetic process; receptor internalization; response to wounding; phosphatidylcholine biosynthetic process; regulation of receptor recycling; DNA replication; cell adhesion; protein tetramerization; neurotransmitter biosynthetic process Disease: Yt Blood Group Antigen
Research Articles on ACHE	**1.** verify amplification and/or deletion in the ACHE, BCHE, EPHB4 and MME genes in 32 samples of sporadic breast cancer
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

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