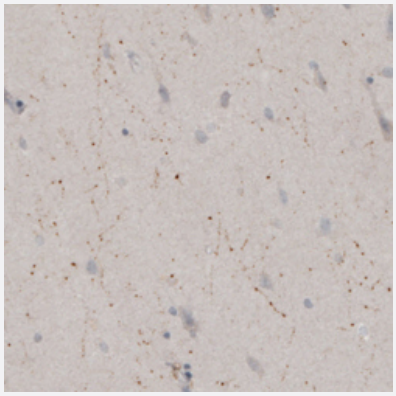
CHAT monoclonal antibody, clone CL3169

Catalog # MAB15792 Size 100 uL

Applications



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical staining (Formalin-fixed paraffin-embedded sections) of human cerebral cortex with CHAT monoclonal antibody, clone CL3169 (Cat # MAB15792) shows positivity in cholinergic fibers.

Specification

Product Description	Mouse monoclonal antibody raised against partial recombinant human CHAT.
Immunogen	Recombinant protein corresponding to human CHAT.
Epitope	This antibody binds to an epitope located within the peptide sequence GLFSSYRLPGHTQDT as determined by overlapping synthetic peptides.
Sequence	GLFSSYRLPGHTQDTLVAQNSSIMPEPEHVIVACCNQFFVLDVVINFRRLSEGDLFTQLRKIVKMASNEDERLPPIGLLTSDGRSEWAEARTVLVKDSTN
Host	Mouse
Reactivity	Human, Mouse, Rat
Form	Liquid
Purification	Protein A purification
Isotype	IgG1

Recommend Usage	Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) (1:500-1:1000) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS, pH 7.2 (40% glycerol, 0.02% sodium azide).
Storage Instruction	Store at 4°C. For long term storage store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only.

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Gene Info — CHAT

Entrez GeneID	1103
Protein Accession#	P28329
Gene Name	CHAT
Gene Alias	CMS1A, CMS1A2
Gene Description	choline acetyltransferase
Omim ID	118490 254210
Gene Ontology	Hyperlink
Gene Summary	This gene encodes an enzyme which catalyzes the biosynthesis of the neurotransmitter acetylcholi ne. This gene product is a characteristic feature of cholinergic neurons, and changes in these neu rons may explain some of the symptoms of Alzheimer disease. Mutations in this gene are associa ted with congenital myasthenic syndrome associated with episodic apnea. Multiple transcript vari ants encoding different isoforms have been found for this gene, and some of these variants have been shown to encode more than one isoform. [provided by RefSeq
Other Designations	OTTHUMP00000019583|OTTHUMP00000019584|acetyl CoA:choline O-acetyltransferase

Pathway

- Glycerophospholipid metabolism

Disease

- Alzheimer disease
- Amnesia
- Bipolar Disorder
- Cardiovascular Diseases
- Cognition
- Cognition Disorders
- Depressive Disorder
- Diabetes Complications
- Diabetes Mellitus
- Edema
- Genetic Predisposition to Disease
- Hypercholesterolemia
- Mental Disorders
- Metabolic Syndrome X
- Neoplasms
- Neuropsychological Tests
- Osteoporosis
- Schizophrenia
- Schizophrenic Psychology
- Tobacco Use Disorder
- Weight Gain