

RecomAb™

CHAT recombinant monoclonal antibody, clone R08-4H2

Catalog # RAB06500 Size 100 uL

Specification

Product Description	Rabbit recombinant monoclonal antibody raised against human CHAT.
Antibody Species	Rabbit
Immunogen	Original antibody is raised against recombinant protein corresponding to human CHAT.
Theoretical MW (kDa)	Calculated MW: 83 kD
Reactivity	Human, Mouse, Rat
Form	Liquid
Purification	Affinity purification
Isotype	IgG
Recommend Usage	Flow Cytometry (1:50-1:100) Immunohistochemistry (1:50-1:100) Immunofluorescence(1:50-1:200) Immunoprecipitation(1:20) Western Blot (1:500-1:1000) The optimal working dilution should be determined by the end use.
Storage Buffer	In PBS, 150 mM NaCl, pH 7.4 (50% glycerol and 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 should be handled by trained staff only.

Applications

- Western Blot

- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytometry

Gene Info — CHAT

Entrez GeneID [1103](#)

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 acetylcholine. This gene product is a characteristic feature of cholinergic neurons, and changes in these neurons may explain some of the symptoms of Alzheimer disease. Mutations in this gene are associated with congenital myasthenic syndrome associated with episodic apnea. Multiple transcript variants 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](#)