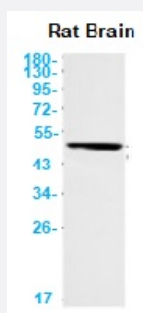


RecomAb™

CHAT recombinant monoclonal antibody, clone R07-1G8

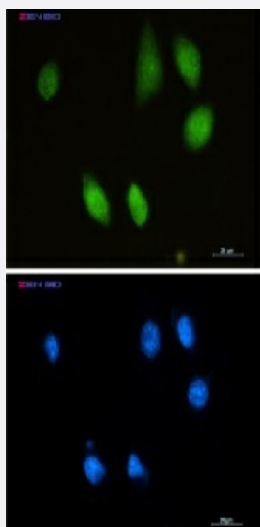
Catalog # RAB01502 Size 100 uL

Applications



Western Blot

Western blot analysis of Choline Acetyltransferase in rat Brain lysates using human Choline Acetyltransferase recombinant monoclonal antibody, clone R07-1G8 (Cat # RAB01502).



Immunocytochemistry

Immunocytochemistry analysis of Choline Acetyltransferase (green) in SH-SY5Y using human Choline Acetyltransferase recombinant monoclonal antibody, clone R07-1G8 (Cat # RAB01502), and DAPI (blue).

Specification

Product Description

Rabbit recombinant monoclonal antibody raised against synthetic peptide of human Choline Acetyltransferase.

Antibody Species

Rabbit

Immunogen	Original antibody is raised against a synthetic peptide corresponding to human Choline Acetyltransferase
Theoretical MW (kDa)	Calculated MW: 83 kD
Reactivity	Human
Form	Liquid
Purification	Affinity purification
Isotype	IgG
Recommend Usage	Immunofluorescence (1:50-1:200) Immunoprecipitation (1:20) Western Blot (1:500-1:1000) The optimal working dilution should be determined by the end user.
Storage Buffer	In 50 mM Tris-Glycine, pH 7.4 (0.15 M NaCl, 40% Glycerol, 0.01% Sodium azide and 0.05% BSA)
Storage Instruction	Store at 4°C for short term. 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

Western blot analysis of Choline Acetyltransferase in rat Brain lysates using human Choline Acetyltransferase recombinant monoclonal antibody, clone R07-1G8 (Cat # RAB01502).

- Immunocytochemistry

Immunocytochemistry analysis of Choline Acetyltransferase (green) in SH-SY5Y using human Choline Acetyltransferase recombinant monoclonal antibody, clone R07-1G8 (Cat # RAB01502), and DAPI(blue).

- Immunoprecipitation

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 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](#)