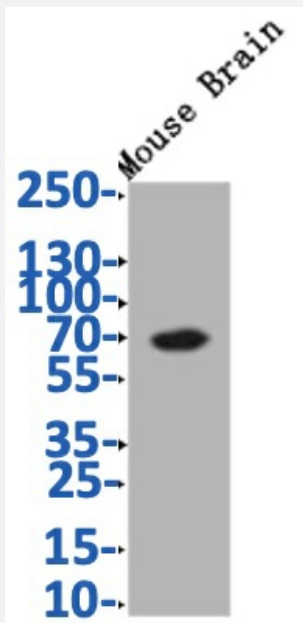


RecomAb™

CHAT recombinant monoclonal antibody, clone 8E7

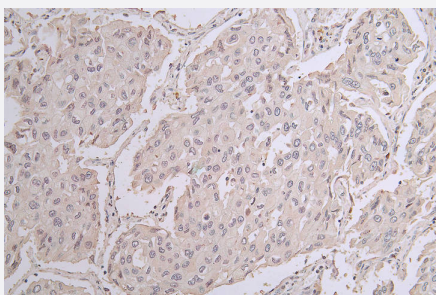
Catalog # RAB07693 Size 100 uL

Applications



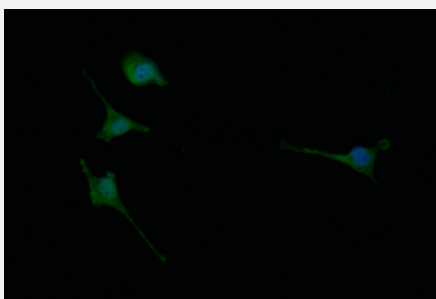
Western Blot

Western Blot analysis of Lane 1: Mouse brain tissue lysate.



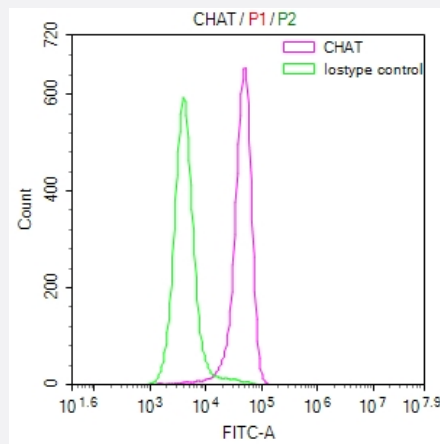
Immunohistochemistry

Immunohistochemistry image of CHAT recombinant monoclonal antibody, clone 8E7 diluted at 1:50 and staining in paraffin-embedded human lung cancer performed on a Leica Bond™ system.



Immunofluorescence

Immunofluorescence staining of SH-SY5Y Cells with CHAT recombinant monoclonal antibody, clone 8E7 at 1:30, counter-stained with DAPI.



Flow Cytometry

Overlay Peak curve showing SH-SY5Y cells stained with CHAT recombinant monoclonal antibody, clone 8E7 (red line) at 1:50.

Specification

Product Description	Rabbit recombinant monoclonal antibody raised against human and mouse CHAT.
Antibody Species	Rabbit
Immunogen	Original antibody is raised against a synthetic peptide corresponding to human CHAT.
Reactivity	Human, Mouse
Form	Liquid
Purification	Affinity chromatography purification
Isotype	IgG
Recommend Usage	ELISA Flow Cytometry(1:50-1:200) Immunohistochemistry(1:50-1:200) Immunofluorescence(1:20-1:200) Western Blot(1:500-1:2000) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS, pH7.4 (150 mM NaCl, 0.02% sodium azide and 50% glycerol)
Storage Instruction	Store at -20°C or -80°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 Lane 1: Mouse brain tissue lysate.

- Immunohistochemistry

Immunohistochemistry image of CHAT recombinant monoclonal antibody, clone 8E7 diluted at 1:50 and staining in paraffin-embedded human lung cancer performed on a Leica Bond™ system.

- Immunofluorescence

Immunofluorescence staining of SH-SY5Y Cells with CHAT recombinant monoclonal antibody, clone 8E7 at 1:30, counter-stained with DAPI.

- Enzyme-linked Immunoabsorbent Assay

- Flow Cytometry

Overlay Peak curve showing SH-SY5Y cells stained with CHAT recombinant monoclonal antibody, clone 8E7 (red line) at 1:50.

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](#)