

CHAT Mouse mAb

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Catalog # AP94804

Product Information

Application	WB, IHC-P, IHC-F, IF
Primary Accession	Q03059
Reactivity	Mouse
Host	Rabbit
Clonality	Monoclonal
Calculated MW	71853
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from mouse ChAT
Isotype	IgG1, Kappa
Purity	affinity purified by Protein A
Buffer	0.01M TBS(pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Cytosol; Nucleus
SIMILARITY	Belongs to the carnitine/choline acetyltransferase family.
DISEASE	Defects in CHAT are the cause of congenital myasthenic syndrome with episodic apnea (CMSEA) [MIM:254210]; formerly known as familial infantile myasthenia gravis 2 (FIMG2). CMSEA is an autosomal recessive congenital myasthenic syndrome. Patients have myasthenic symptoms since birth or early infancy, negative tests for anti-AChR antibodies, and abrupt episodic crises with increased weakness, bulbar paralysis, and apnea precipitated by undue exertion, fever, or excitement.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	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's disease. Polymorphisms in this gene have been associated with Alzheimer's disease and mild cognitive impairment. 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, May 2010].

Additional Information

Other Names	Choline O-acetyltransferase, CHOACTase, ChAT, Choline acetylase, 2.3.1.6, Chat
Dilution	WB=1:500-2000,IHC-P=1:200-500,IHC-F=1:200-500,IF=1:200-500
Format	0.01M TBS(pH7.4) with 1% BSA, 0.09% (W/V) sodium azide and 50% Glyce

Storage

Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Protein Information

Name

Chat

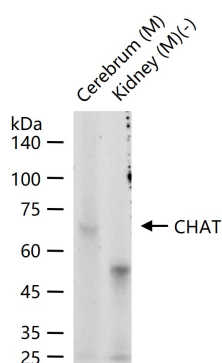
Function

Catalyzes the reversible synthesis of acetylcholine (ACh) from acetyl CoA and choline at cholinergic synapses.

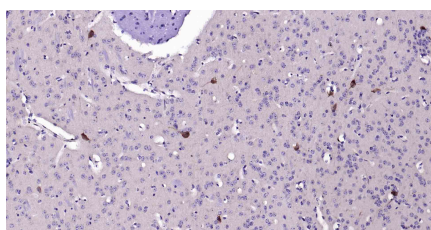
Background

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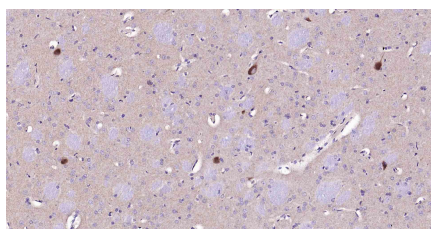
Images



25 ug total protein per lane of various lysates (see on figure) probed with CHAT monoclonal antibody, unconjugated (AP94804) at 1:2000 dilution and 4°C overnight incubation. Followed by conjugated secondary antibody incubation at r.t. for 60 min.



Paraformaldehyde-fixed, paraffin embedded Mouse Cerebrum; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with CHAT Monoclonal Antibody, Unconjugated(AP94804) at 1:200 overnight at 4°C, followed by conjugation to the SP Kit (Mouse, sp-0024)and DAB (C-0010) staining.



Paraformaldehyde-fixed, paraffin embedded Rat Cerebrum; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with CHAT Monoclonal Antibody, Unconjugated(AP94804) at 1:200 overnight at 4°C, followed by conjugation to the SP Kit (Mouse, sp-0024)and DAB (C-0010) staining.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.