Product Name: Choactase Rabbit Polyclonal Antibody
Catalog #: APRab08771

Summary

Production Name	Choactase Rabbit Polyclonal Antibody
Description	Rabbit Polyclonal Antibody
Host	Rabbit
Application	WB,ELISA
Reactivity	Human,Mouse,Rat

Performance

Conjugation	Unconjugated
Modification	Unmodified
Isotype	IgG
Clonality	Polyclonal
Form	Liquid
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
Buffer	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% New type preservative N.
Purification	Affinity purification

Immunogen

Gene Name	CHAT
Alternative Names	CHAT; Choline O-acetyltransferase; CHOACTase; ChAT; Choline acetylase
Gene ID	1103.0
SwissProt ID	P28329.The antiserum was produced against synthesized peptide derived from human Choactase. AA range:334-383

Application

Dilution Ratio	WB 1:500 - 1:2000. ELISA: 1:10000
Molecular Weight	82,70kD

Background

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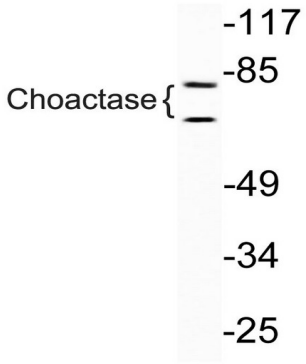
This gene encodes an enzyme which catalyzes the biosynthesis of the neurotransmitter acetylcholine. This gene product is a characteristic feature of cholinergic neurons, and changes in these neurons may explain some of the symptoms of Alzheimer's disease. Polymorphisms in this gene have been associated 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],catalytic activity:Acetyl-CoA + choline = CoA + O-acetylcholine.,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.,function:Catalyzes the reversible synthesis of acetylcholine (ACh) from acetyl CoA and choline at cholinergic synapses.,online information:Choline acetyltransferase entry,similarity:Belongs to the carnitine/choline acetyltransferase family.,

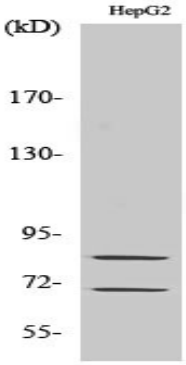
Research Area

Glycerophospholipid metabolism;

Image Data



Western blot analysis of lysate from HepG2 cells, using Choactase antibody.



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Western Blot analysis of various cells using Choactase Polyclonal Antibody diluted at 1：1000

Note

For research use only.