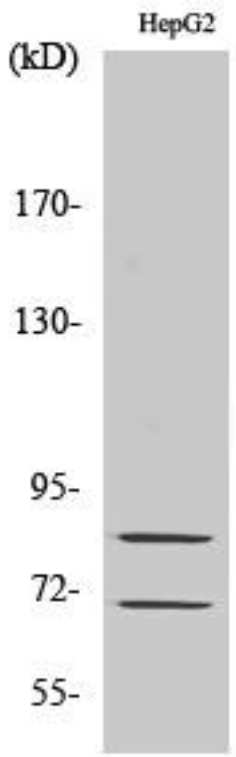
Choactase Monoclonal Antibody

Catalog No	BYmab-12703
Isotype	IgG
Reactivity	Human;Mouse;Rat
Applications	WB
Gene Name	CHAT
Protein Name	Choline O-acetyltransferase
Immunogen	The antiserum was produced against synthesized peptide derived from human Choactase. AA range:334-383
Specificity	Choactase Monoclonal Antibody detects endogenous levels of Choactase protein.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Monoclonal, Mouse,IgG
Purification	The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB 1:500-2000
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	CHAT; Choline O-acetyltransferase; CHOACTase; ChAT; Choline acetylase
Observed Band	82 70kD
Cell Pathway	nucleus,cytoplasm,cytosol,presynapse,
Tissue Specificity	Brain,Lymphocyte,Placenta,Spinal cord,
Function	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.,

Background	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],
matters needing attention	Avoid repeated freezing and thawing!
Usage suggestions	This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

Products Images



Western Blot analysis of various cells using Choactase Monoclonal Antibody