Datasheet for ABIN350211

anti-Choline Acetyltransferase antibody

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Overview

Quantity:	500 µg
Target:	Choline Acetyltransferase (CHAT)
Reactivity:	Mouse
Host:	Sheep
Clonality:	Polyclonal
Conjugate:	This Choline Acetyltransferase antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC)

Product Details

Purpose:	Sheep antibody to ChAT
Immunogen:	A synthetic peptide from mouse ChAT conjugated to blue carrier protein was used as the antigen. The peptide is homologous in rat and human.
Isotype:	IgG
Specificity:	Specific for ChAT
Cross-Reactivity:	Human, Marmoset, Mouse, Rat
Cross-Reactivity (Details):	Other species not yet tested.
Purification:	IgG

Target Details

Target:	Choline Acetyltransferase (CHAT)

Target Details

Alternative Name:	ChAT (CHAT Products)
Background:	Cholinergic systems are implicated in numerous neurologic functions. Alteration in some cholinergic neurons may account for the disturbances of Alzheimer disease. The protein encoded by this gene synthesizes the neurotransmitter acetylcholine. Alternative splice variants have been found that contain alternative 5' untranslated exons. Three of the four described splice variants encode identical 69 kDa proteins while one variant encodes both the 69 kDa and a larger 82 kDa protein. Choline acetylase catalyzes the reversible synthesis of acetylcholine (ACh) from acetyl CoA and choline at cholinergic synapses. CATALYTIC ACTIVITY: Acetyl-CoA + choline = CoA + O-acetylcholine. Defects in CHAT are the cause of familial infantile myasthenia gravis 2 (FIMG2), also known as CMS-EA. FIMG2 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. Inheritance is autosomal recessive.
UniProt:	P32738
Pathways:	Skeletal Muscle Fiber Development

Application Details

Application Notes:	IHC WB. A concentration of 10-50 µg,ml is recommended. The optimal concentration should be determined by the end user.
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Reconstitute in 500 µL of sterile water. Centrifuge to remove any insoluble material.
Handling Advice:	Avoid freeze and thaw cycles.
Storage:	4 °C,-20 °C
Storage Comment:	Maintain the lyophilised/reconstituted antibodies frozen at -20C for long term storage and refrigerated at 2-8C for a shorter term. When reconstituting glycerol (1:1) may be added for an additional stability. Avoid freeze and thaw cycles.
Expiry Date:	12 months