

Datasheet for ABIN6657460

anti-Choline Acetyltransferase antibody



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1 Image

Overview

Quantity:	100 µL
Target:	Choline Acetyltransferase (CHAT)
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Choline Acetyltransferase antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC)

Product Details

Purpose:	ChAT (Choline Acetyltransferase) Antibody
Immunogen:	Anti-ChAT Antibody was produced in rabbit by repeated immunizations with native choline acetyltransferase purified from human placenta
Isotype:	IgG
Cross-Reactivity (Details):	Reactivity against ChAT occurs from human sources.
Purification:	Anti-ChAT antibody is neat antiserum prepared from monospecific antiserum by delipidation and defibrination.

Target Details

Target:	Choline Acetyltransferase (CHAT)
Alternative Name:	ChAT (Choline Acetyltransferase) (CHAT Products)

Target Details

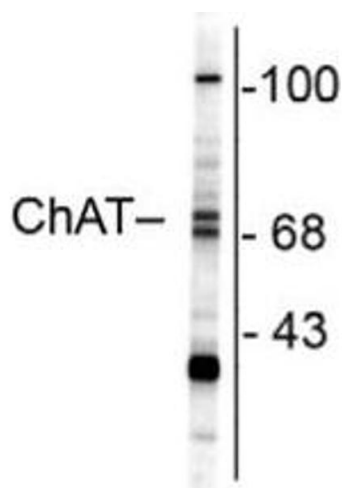
Background:	Synonyms: acetyl CoA:choline O-acetyltransferase, CHAT, CHOACTase, Choline acetylase, choline acetyltransferase, Choline O-acetyltransferase, CLAT, CMS1A, CMS1A2 Background: ChAT antibody recognizes choline acetyltransferase which is a neuronal enzyme which catalyzes the reaction between Acetyl CoA and choline resulting in the formation of acetylcholine. ChAT is found primarily in cholinergic neurons making it a valuable marker for diseases associated with decreased cholinergic function such as Schizophrenia, Alzheimer disease (AD) and Down syndrome. Decreased choline acetyltransferase activity in particular has been shown in Schizophrenic subjects. It has furthermore been demonstrated that in patients with AD, there are significantly lower levels of cortical ChAT that correlate with severity of the disease as measured by loss of neuropsychological function. Anti-ChAT antibody is ideal for investigators involved in Cell Signaling, Neuroscience, Signal Transduction research. Gene Name: CHAT
Gene ID:	1103
UniProt:	P28329
Pathways:	Skeletal Muscle Fiber Development

Application Details

Application Notes:	Immunohistochemistry_Dilution: 1:100 Western_Blott_Dilution: 1:1000
Comment:	Anti-ChAT antibody has been tested in western blot and IHC and is suitable for use in ELISA. Specific conditions for reactivity should be optimized by the end user. Expect a ~ 68/70 kDa band corresponding to choline acetyltransferase protein by Western Blot in the appropriate lysate or tissue.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Storage:	4 °C,-20 °C
Storage Comment:	Store vial at -20° C prior to opening. This product is stable at 4° C as an undiluted liquid. For extended storage, aliquot contents and freeze at -20° C or below. Avoid cycles of freezing and thawing. Dilute only prior to immediate use.
Expiry Date:	12 months



Western Blotting

Image 1. Western Blot - Anti-Choline Acetyltransferase Antibody Western Blot of Rabbit Anti-ChAT antibody. Lane 1: rat brain. Lane 2: none. Load: 10 µg per lane. Primary antibody: Choline Acetyltransferase antibody at 1:1000 for overnight at 4°C. Secondary antibody: rabbit secondary antibody at 1:10,000 for 45 min at RT. Block: 5% BLOTTO overnight at 4°C. Predicted/Observed size: ~68/70k, ~68/70k for choline acetyltransferase protein. Other band(s): ChAT splice variants and isoforms.