

ARG55538 anti-ChAT antibody

Package: 100 µl
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes ChAT
Tested Reactivity	Hu, Ms
Tested Application	ICC/IF, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	ChAT
Species	Human
Immunogen	KLH-conjugated synthetic peptide corresponding to aa. 98-128 (N-terminus) of Human ChAT.
Conjugation	Un-conjugated
Alternate Names	CMS1A; Choline acetylase; CHOACTase; CHOACTASE; EC 2.3.1.6; CMS6; Choline O-acetyltransferase; ChAT; CMS1A2

Application Instructions

Application table	Application	Dilution
	ICC/IF	1:10 - 1:50
	WB	1:1000
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	
Positive Control	NCI-H460	

Properties

Form	Liquid
Purification	This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.
Buffer	PBS and 0.09% (W/V) Sodium azide
Preservative	0.09% (W/V) Sodium azide
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Database links [GeneID: 1103 Human](#)
[GeneID: 12647 Mouse](#)
[Swiss-port # P28329 Human](#)

Gene Symbol CHAT

Gene Full Name choline O-acetyltransferase

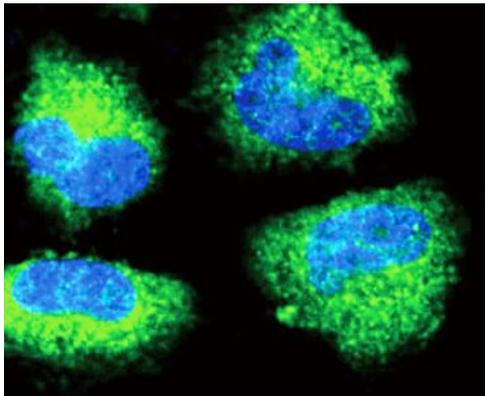
Background This gene encodes an enzyme which catalyzes the biosynthesis of the neurotransmitter acetylcholine. This gene product is a characteristic feature of cholinergic neurons, and changes in these neurons may explain some of the symptoms of Alzheimer's disease. Polymorphisms in this gene have been 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]

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

Research Area Neuroscience antibody

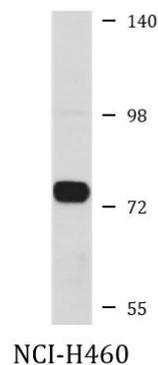
Calculated Mw 83 kDa

Images



ARG55538 anti-ChAT antibody ICC/IF image

Immunofluorescence: NCI-H460 cells stained with ARG55538 anti-ChAT antibody (green). DAPI (blue) for nuclear staining.



ARG55538 anti-ChAT antibody WB image

Western blot: 35 µg of NCI-H460 cell lysate stained with ARG55538 anti-ChAT antibody.