

ARG46832 anti-ChAT antibody

Package: 50 µl
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes ChAT
Tested Reactivity	Hu, Ms, Rat
Tested Application	ICC/IF, IHC-P, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	ChAT
Immunogen	Recombinant protein.
Conjugation	Un-conjugated
Alternate Names	CMS1A; Choline acetylase; CHOACTase; CHOACTASE; EC 2.3.1.6; CMS6; Choline O-acetyltransferase; ChAT; CMS1A2

Application Instructions

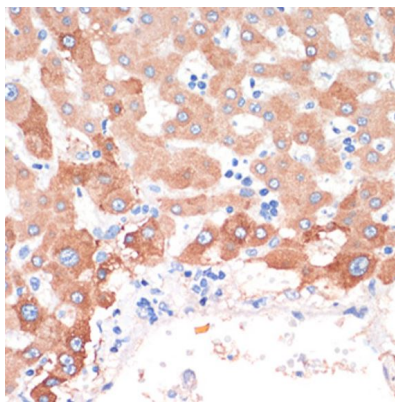
Application table	Application	Dilution
	ICC/IF	1:50-1:200
	IHC-P	1:50-1:200
	WB	1:1000-1:2000
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	
Observed Size	71 kDa	

Properties

Form	Liquid
Purification	Affinity purification with immunogen
Buffer	PBS containing 50% glycerol, preserved with proclin300 or sodium azide
Preservative	Proclin 300 or Sodium azide
Stabilizer	50% Glycerol
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.

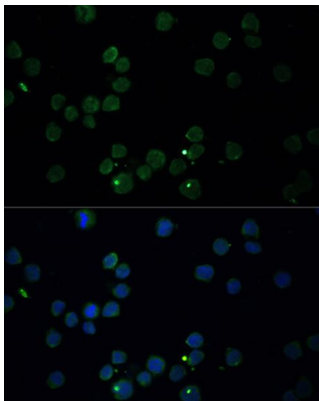
Gene Symbol	CHAT
Gene Full Name	choline O-acetyltransferase
Background	Choline acetyltransferase is a neuronal enzyme which catalyzes the reaction between Acetyl CoA and choline resulting in the formation of acetylcholine. It is therefore found primarily in cholinergic neurons making it a valuable marker for diseases associated with decreased cholinergic function such as Schizophrenia, Alzheimer disease (AD) and Down syndrome (Holt et al. 1999). Decreased choline acetyltransferase activity in particular has been shown in Schizophrenic subjects (Karson et al 1993). 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 (Baskin et al. 1999).
Calculated Mw	83 kDa

Images



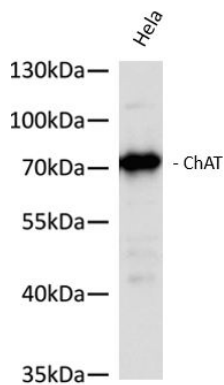
ARG46832 anti-ChAT antibody IHC-P image

Immunohistochemistry: Human liver stained with ARG46832 anti-ChAT antibody at 1:200 dilution.



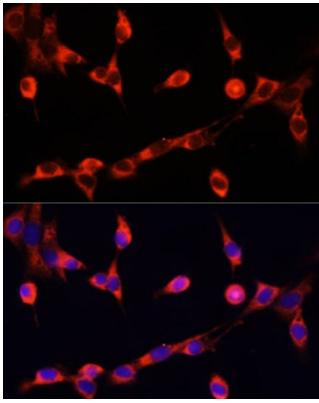
ARG46832 anti-ChAT antibody ICC/IF image

Immunofluorescence: THP-1 stained with ARG46832 anti-ChAT antibody at 1:100 dilution.



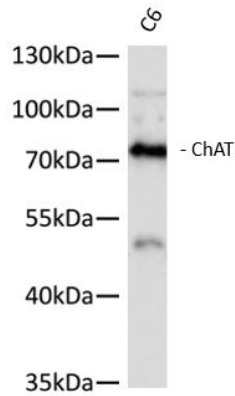
ARG46832 anti-ChAT antibody WB image

Western blot: HeLa stained with ARG46832 anti-ChAT antibody at 1:1000 dilution.



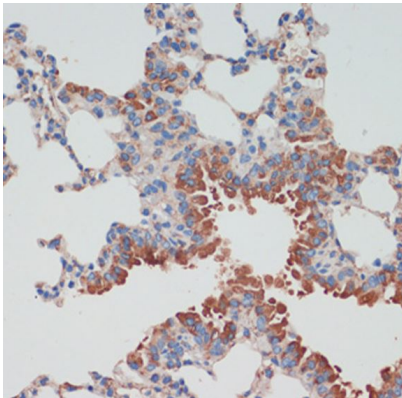
ARG46832 anti-ChAT antibody ICC/IF image

Immunofluorescence: NIH/3T3 stained with ARG46832 anti-ChAT antibody at 1:100 dilution.



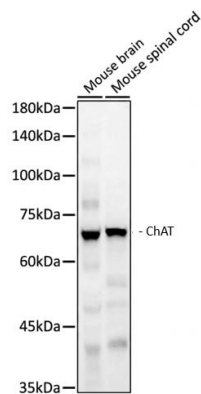
ARG46832 anti-ChAT antibody WB image

Western blot: C6 stained with ARG46832 anti-ChAT antibody at 1:1000 dilution.



ARG46832 anti-ChAT antibody IHC-P image

Immunohistochemistry: Mouse lung stained with ARG46832 anti-ChAT antibody at 1:200 dilution.



ARG46832 anti-ChAT antibody WB image

Western blot: Mouse brain and mouse spinal cord stained with ARG46832 anti-ChAT antibody at 1:2500 dilution.