ARG52243
anti-ChAT antibody

Package: 50 µl
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes ChAT
Tested Reactivity	Ms, Rat, NHuPrm
Tested Application	IHC-P, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	ChAT
Species	Human
Immunogen	Native choline acetyltransferase purifed from human placenta
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
IHC-P	1:100
WB	1:1000

Application Note

Specific for the ~ 68/70 k choline acetyltransferase protein
* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

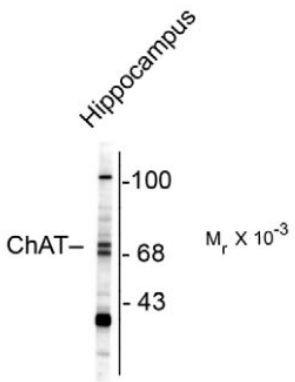
Properties

Form	Liquid
Purification	Neat serum
Buffer	Neat serum
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: 12647 Mouse
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).
Research Area	Neuroscience antibody
Calculated Mw	83 kDa

Images



ARG52243 anti-ChAT antibody WB image

Western blot: rat brain lysate ARG52243 anti-ChAT antibody showing specific immunolabeling of the ~68/70k ChAT