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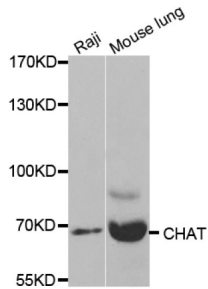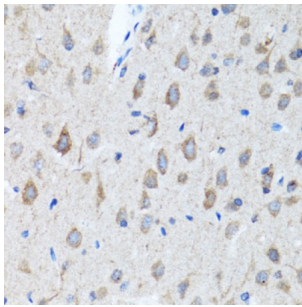# Choline O-Acetyltransferase (CHAT) Antibody

Catalogue No.:abx001939

Western blot analysis of extracts of various cell lines, using CHAT antibody (abx001939) at 1/1000 dilution.

Immunohistochemistry of paraffin-embedded rat brain using CHAT antibody (abx001939) at dilution of 1/100 (40x lens).

CHAT Antibody is a Rabbit Polyclonal antibody against CHAT. 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.

Target:	Choline O-Acetyltransferase (CHAT)
Clonality:	Polyclonal
Reactivity:	Human, Mouse, Rat
Tested Applications:	WB, IHC
Host:	Rabbit
Recommended dilutions:	WB: 1/500 - 1/2000, IHC-P: 1/50 - 1/200. Not tested in IHC-F. Optimal dilutions/concentrations should be determined by the end user.
Conjugation:	Unconjugated
Immunogen:	A synthetic peptide corresponding to a sequence within amino acids 200-300 of human CHAT.
Isotype:	IgG

v1.0.0

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Form:	Liquid
Purification:	Purified by affinity chromatography.
Storage:	Aliquot and store at -20°C. Avoid repeated freeze/thaw cycles.
UniProt Primary AC:	P28329 (**UniProt**, **ExPASy**)
Gene Symbol:	CHAT
GeneID:	**1103**
NCBI Accession:	NP_065574.4
KEGG:	hsa:1103
String:	**9606.ENSP00000337103**
Molecular Weight:	Calculated MW: 83 kDa Observed MW: 71 kDa
Buffer:	PBS, pH 7.3, containing 0.01% thimerosal, 50% glycerol.
Concentration:	> 0.2 mg/ml
Note:	This product is for research use only.

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