Datasheet for ABIN7600421

anti-Choline Acetyltransferase antibody (AA 19-612)

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Overview

Quantity:	100 µg
Target:	Choline Acetyltransferase (CHAT)
Binding Specificity:	AA 19-612
Reactivity:	Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Choline Acetyltransferase antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (IHC)

Product Details

Purpose:	Anti-Choline Acetyltransferase/Chat Antibody Picoband®
Immunogen:	E.coli-derived rat Choline Acetyltransferase/Chat recombinant protein (Position: E19-D612).
Isotype:	IgG
Cross-Reactivity (Details):	No cross-reactivity with other proteins.
Characteristics:	Anti-Choline Acetyltransferase/Chat Antibody Picoband® (ABIN7600421). Tested in ELISA, IHC, WB applications. This antibody reacts with Mouse, Rat. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Purification:	Immunogen affinity purified.

Target Details

Target:	Choline Acetyltransferase (CHAT)
Alternative Name:	Chat (CHAT Products)
Background:	Synonyms: Choline O-acetyltransferase (EC:2.3.1.6); CHOACTase; ChAT; Choline acetylase; Chat Background: Choline acetyltransferase (commonly abbreviated as ChAT, but sometimes CAT) is a transferase enzyme responsible for the synthesis of the neurotransmitter acetylcholine. In humans, the choline acetyltransferase enzyme is encoded by the CHAT gene. 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.
Molecular Weight:	83 kDa
Gene ID:	290567
UniProt:	P32738
Pathways:	Skeletal Muscle Fiber Development

Application Details

Application Notes:	Western blot, 0.25-0.5 µg/mL, Rat Immunohistochemistry (Paraffin-embedded Section), 0.5-1 µg/mL, Mouse, Rat ELISA, 0.1-0.5 µg/mL, 1. Cohen-Haguenauer, O., Brice, A., Berrard, S., Van Cong, N., Mallet, J., Frezal, J. Localization of the choline acetyltransferase (CHAT) gene to human chromosome 10. Genomics 6: 374-378, 1990. 2. Harold, D., Peirce, T., Moskvina, V., Myers, A., Jones, S., Hollingworth, P., Moore, P., Lovestone, S., Powell, J., Foy, C., Archer, N., Walter, S., and 11 others. Sequence variation in the CHAT locus shows no association with late-onset Alzheimer's disease. Hum. Genet. 113: 258-267, 2003. 3. Kraner, S, Laufenberg, I., Strassburg, H. M., Sieb, J. P., Steinlein, O. K. Congenital myasthenic syndrome with episodic apnea in patients homozygous for a CHAT missense mutation. Arch. Neurol. 60: 761-763, 2003.
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Concentration:	500 µg/mL
Buffer:	Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na2HPO4, 0.05 mg Sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Store at -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freeze-thaw cycles.