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BOSTER BIOLOGICAL TECHNOLOGY
3942 B Valley Ave, Pleasanton, CA 94566
888-466-3604 | support@bosterbio.com | www.bosterbio.com

Anti-Choline Acetyltransferase/CHAT Antibody Picoband® Biotin Conjugated

Catalog Number: A01192-3-Biotin

About CHAT

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.

Overview

Product Name	Anti-Choline Acetyltransferase/CHAT Antibody Picoband® Biotin Conjugated
Reactive Species	Human, Mouse, Rat
Clonality	Polyclonal
Formulation	Each vial contains 50% glycerol, 0.9% NaCl, 0.2% Na2HPO4, 0.02% NaN3.
Storage Instructions	At -20˚C for one year from date of receipt. Avoid repeated freezing and thawing.
Host	Rabbit
Uniprot ID	P28329

Technical Details

Immunogen	E.coli-derived human CHAT recombinant protein (Position: D446-R652). Human CHAT shares 88.4% and 87% amino acid (aa) sequence identity with mouse and rat CHAT, respectively.
Cross Reactivity	No cross-reactivity with other proteins
Isotype	Rabbit IgG
Form	Liquid
Concentration	0.5 mg/mL
Purification	Immunogen affinity purified.
Conjugate	Biotin
Suggested Dilutions	The intended application should be selected according to the customer's experimental

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	requirements.

8 Publications Citing This Product

1. PubMed ID: 10.1111/j.1440-1681.2009.05149.x, PROTECTIVE EFFECTS OF ICARIIN ON COGNITIVE DEFICITS INDUCED BY CHRONIC CEREBRAL HYPOPERFUSION IN RATS

2. PubMed ID: 26509167, Overexpression of NTRK1 Promotes Differentiation of Neural Stem Cells into Cholinergic Neurons

3. PubMed ID: 18983683, Chemokine CXCL12 and its receptor CXCR4 expression are associated with perineural invasion of prostate cancer

Visit bosterbio.com/anti-chat-picoband-trade-antibody-a01192-3-boster.html to see all 8 publications.

Anti-Choline Acetyltransferase/CHAT Antibody - Biotin

For Research Use Only. Not for use in diagnostic procedures.