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Anti-Choline Acetyltransferase/CHAT Antibody Picoband® FITC Conjugated

Catalog Number: A01192-4-FITC

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® FITC Conjugated
Reactive Species	Human, Mouse, Rat
Application	Recommended applications are based on the parent unconjugated antibody (ELISA, Flow Cytometry, IF, IHC, ICC, WB). Customers may select suitable applications according to their experimental needs.
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. Protect from light.
Host	Rabbit
Uniprot ID	P28329

Technical Details

Immunogen	E.coli-derived human Choline Acetyltransferase/CHAT recombinant protein (Position: T25-K731).
Cross Reactivity	No cross-reactivity with other proteins.
Isotype	Rabbit IgG
Form	Liquid
Concentration	0.5 mg/mL
Purification	Immunogen affinity purified.
Conjugate	FITC

	Excitation Wavelength: 495 nm Emission Wavelength: 525 nm
Suggested Dilutions	Optimal dilutions should be determined by end users.

3 Publications Citing This Product

1. PubMed ID: 10.1155/2021/9974625, Icariin Promotes Survival, Proliferation, and Differentiation of Neural Stem Cells In Vitro and in a Rat Model of Alzheimer's Disease

2. PubMed ID: 10.1007/s12031-018-1098-y, Pre-Injection of Small Interfering RNA (siRNA) Promotes c-Jun Gene Silencing and Decreases the Survival Rate of Axotomy-Injured Spinal Motoneurons in Adult Mice

3. PubMed ID: 21674199, Wu R, Gu B, Zhao X, Tan Z, Chen L, Zhu J, Zhang M. Hum Cell. 2013 Mar;26(1):19-27. Doi: 10.1007/S13577-011-0022-3. Epub 2011 Jun 15. Derivation Of Multipotent Nestin(+)/Cd271 (-)/Stro-1 (-) Mesenchymal-Like Precursors From Human Embryonic Stem Cel...

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