

## Anti-Choline Acetyltransferase/CHAT Antibody Picoband® Fluoro550 Conjugated

Catalog Number: A01192-3-Fluoro550

### 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® Fluoro550 Conjugated
Reactive Species	Human, Mouse, Rat
Application	Recommended applications are based on the parent unconjugated antibody (IHC, WB). Customers may select suitable applications according to their experimental needs.
Clonality	Polyclonal
Formulation	Each vial contains 50% glycerol, 0.9% NaCl, 0.2% Na <sub>2</sub> HPO <sub>4</sub> , 0.02% Na <sub>3</sub> N.
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 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	Fluoro550

	Excitation Wavelength: 562 nm Emission Wavelength: 576 nm
Suggested Dilutions	Optimal dilutions should be determined by end users.

## 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

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