

Goat Anti-Choline acetyltransferase Antibody Peptide-affinity purified goat antibody Catalog # AF1238a

Specification

Goat Anti-Choline acetyltransferase Antibody - Product Information

Application Primary Accession Other Accession Reactivity Predicted Host Clonality Concentration Isotype Calculated MW WB <u>P28329</u> <u>NP_001136405</u>, <u>1103</u> Human Pig, Dog, Cow Goat Polyclonal 100ug/200ul IgG 82536

Goat Anti-Choline acetyltransferase Antibody - Additional Information

Gene ID 1103

Other Names Choline O-acetyltransferase, CHOACTase, ChAT, Choline acetylase, 2.3.1.6, CHAT

Format

0.5 mg IgG/ml in Tris saline (20mM Tris pH7.3, 150mM NaCl), 0.02% sodium azide, with 0.5% bovine serum albumin

Storage Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

Goat Anti-Choline acetyltransferase Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Goat Anti-Choline acetyltransferase Antibody - Protein Information

Name CHAT

Function Catalyzes the reversible synthesis of acetylcholine (ACh) from acetyl CoA and choline at cholinergic synapses.

Goat Anti-Choline acetyltransferase Antibody - Protocols



Provided below are standard protocols that you may find useful for product applications.

- <u>Western Blot</u>
- Blocking Peptides
- <u>Dot Blot</u>
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- <u>Cell Culture</u>

Goat Anti-Choline acetyltransferase Antibody - Images

250kDa 150kDa 100kDa
75kDa
50kDa
37kDa
25kDa
20kDa
15kDa
10kDa

AF1238a (0.03 μ g/ml) staining of Human Placenta lysate (35 μ g protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

Goat Anti-Choline acetyltransferase Antibody - Background

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.

Goat Anti-Choline acetyltransferase Antibody - References

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Redesign of cosubstrate specificity and identification of important residues for substrate binding to hChAT. Green KD, et al. Biochemistry, 2010 Jul 27. PMID 20560540.

Genetic pathway-based hierarchical clustering analysis of older adults with cognitive complaints and amnestic mild cognitive impairment using clinical and neuroimaging phenotypes. Sloan CD, et al. Am J Med Genet B Neuropsychiatr Genet, 2010 Jul. PMID 20468060.

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