

Datasheet for ABIN7600920

anti-Choline Acetyltransferase antibody (AA 25-731)



Go to Product page

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Quantity:	100 μg	
Target:	Choline Acetyltransferase (CHAT)	
Binding Specificity:	AA 25-731	
Reactivity:	Human, Mouse, Rat	
Host:	Rabbit	
Clonality:	Polyclonal	
Conjugate:	This Choline Acetyltransferase antibody is un-conjugated	
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (IHC), Immunofluorescence (IF),	
	Immunocytochemistry (ICC), Flow Cytometry (FACS)	

Product Details

Purpose:	Anti-Choline Acetyltransferase/CHAT Antibody Picoband®	
Immunogen:	E.coli-derived human Choline Acetyltransferase/CHAT recombinant protein (Position: T25-K731).	
Isotype:	IgG	
Cross-Reactivity (Details):	No cross-reactivity with other proteins.	
Characteristics:	Anti-Choline Acetyltransferase/CHAT Antibody Picoband® (ABIN7600920). Tested in ELISA, Flow Cytometry, IF, IHC, ICC, WB applications. This antibody reacts with Human, 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.	

Product Details Purification: Tarnet Details

Immunogen affinity purified.

rarget 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:	1103
UniProt:	P28329

Application Details

Application Notes:

Pathways:

Western blot, 0.25-0.5 µg/mL, Human

Skeletal Muscle Fiber Development

Immunohistochemistry (Paraffin-embedded Section), 0.5-1 μg/mL, Human

Immunocytochemistry/Immunofluorescence, 2 μ g/mL, Human

Flow Cytometry (Fixed), 1-3 µg/1x10⁶ cells, Human

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

Application Details

	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.