

Goat ChAT (Choline Acetyltransferase) Polyclonal Antibody | anti-CHAT antibody

Anti-Choline Acetyltransferase

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA72808	Goat	Avian, Chicken, Guinea Pig, Human, Mouse, non-Human primates	Western Blot

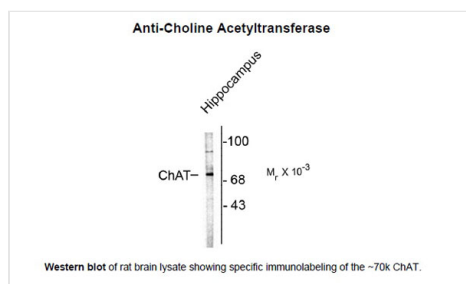
PRODUCT SYNONYMS

ChAT (Choline Acetyltransferase); Polyclonal Antibody; Anti-Choline Acetyltransferase; anti-CHAT antibody

PRODUCT SPECIFICATIONS

Host	Goat
Reactivity	Avian, Chicken, Guinea Pig, Human, Mouse, non-Human primates
Clonality	Polyclonal
Specificity	Specific for the ~ 70k choline acetyltransferase protein
Purity/Purification	Affinity Purified (Prepared from goat serum by affinity purification using a column to which the protein immunogen was coupled.)
Form/Format	100 ul in PBS + 5 mg/ml BSA + 0.2% NaN ₃ .. Adequate amount of material to conduct 10-mini Western Blots.
Applicable Applications for anti-CHAT antibody	WB (Western Blot)
Antigen	Native choline acetyltransferase purified from human placenta
Immunogen Information	Native choline acetyltransferase purified from human placenta
Immunogen Species	Human
Species Reactivity Note	The antibody has been directly tested for reactivity in Western blots with chicken, guinea pig, human, mouse, non-human primate and rat tissues.
Biological Significance	Choline acetyltransferase is a neuronal enzyme which catalyzes the reaction between Acetyl CoA and choline resulting in the formation of acetylcholine. It is therefore found primarily in cholinergic neurons making it a valuable marker for diseases associated with decreased cholinergic function such as Schizophrenia, Alzheimer disease (AD) and Down syndrome (Holt et al. 1999). Decreased choline acetyltransferase activity in particular has been shown in Schizophrenic subjects (Karson et al 1993). It has furthermore been demonstrated that in patients with AD, there are significantly lower levels of cortical ChAT that correlate with severity of the disease as measured by loss of neuropsychological function (Baskin et al. 1999).
Preparation and Storage	For long term storage -20 degree C is recommended. Stable for at least 1 year.

IMAGES



Application Data

ADDITIONAL INFORMATION

Related Product Information for anti-CHAT antibody	Affinity purified goat polyclonal antibody
References	• Karson CN, Casanova MF, Kleinman JE, Griffin WS (1993) Choline acetyltransferase in schizophrenia. Am. J. Psychiatry 150:454-459. • Holt DJ, Herman MM, Hyde TM, Kleinman JE, Cinton CM, German DC, Hersh LB, Greybiel AM, Saper CB (1999) Evidence for a deficit in cholinergic interneurons in the striatum in schizophrenia. Neuroscience 94(1):21-31. • Baskin DS, Browning JL, Pirozzolo FJ, Korporaal S, Baskin JA, Appel SH (1999) Brain choline acetyltransferase and mental function in Alzheimer disease. Arch Neurol. 56:1121-1123.

NCBI AND UNIPROT INFORMATION

NCBI GeneID	1103
UniProt Accession #	P28329
Molecular Weight	70
NCBI Official Synonym Full Names	choline O-acetyltransferase
NCBI Official Symbol	CHAT
NCBI Official Synonym Symbols	CMS1A; CMS1A2; CHOACTASE
NCBI Protein Information	choline O-acetyltransferase; choline acetylase; acetyl CoA:choline O-acetyltransferase

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/chat-choline-acetyltransferase-antibody-western-blot-elisa/72808>