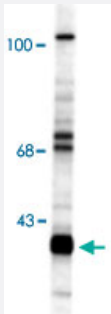


CHAT polyclonal antibody

Catalog # PAB14536 Size 100 uL

Applications



Western Blot (Tissue lysate)

Western blot of rat brain lysate showing specific immunolabeling of the ~68/70 kDa CHAT protein.

Specification

Product Description	Rabbit polyclonal antibody raised against native CHAT.
Immunogen	Native purified CHAT from human placenta.
Host	Rabbit
Reactivity	Human
Form	Liquid
Recommend Usage	Western Blot (1:1000) Immunohistochemistry (1:100) The optimal working dilution should be determined by the end user.
Storage Buffer	In serum
Storage Instruction	Store at -20°C. Aliquot to avoid repeated freezing and thawing.

Applications

- Western Blot (Tissue lysate)

Western blot of rat brain lysate showing specific immunolabeling of the ~68/70 kDa CHAT protein.

- Immunohistochemistry

Gene Info — CHAT

Entrez GeneID [1103](#)

Gene Name CHAT

Gene Alias CMS1A, CMS1A2

Gene Description choline acetyltransferase

Omim ID [118490 254210](#)

Gene Ontology [Hyperlink](#)

Gene Summary 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 disease. 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. [provided by RefSeq]

Other Designations OTTHUMP00000019583|OTTHUMP00000019584|acetyl CoA:choline O-acetyltransferase

Publication Reference

- [Visual hallucinations in Alzheimer's disease do not seem to be associated with chronic hypoperfusion of to visual processing areas V2 and V3 but may be associated with reduced cholinergic input to these areas.](#)

Sinclair LI, Kumar A, Darreh-Shori T, Love S.

Alzheimer's Research & Therapy 2019 Sep; 11(1):80.

Application: ELISA, Human, Brain extracted

- [Increased Active OMI/HTRA2 Serine Protease Displays a Positive Correlation with Cholinergic Alterations in the Alzheimer's Disease Brain.](#)

Darreh-Shori T, Rezaeianyzdi S, Lana E, Mitra S, Gellerbring A, Karami A, Bogdanovic N, Lithner CU, Winblad B, Behbahani H.

Molecular Neurobiology 2018 Oct; [Epub].

Application: ELISA, Human, Human brains

- [Fibrillar \$\beta\$ -amyloid 1-42 alters cytokine secretion, cholinergic signalling and neuronal differentiation.](#)

Malmsten L, Vijayaraghavan S, Hovatta O, Marutle A, Darreh-Shori T.

Journal of Cellular and Molecular Medicine 2014 Sep; 18(9):1874.

Application: ELISA, Human, Neurosphere

- [Regulated Extracellular Choline Acetyltransferase Activity- The Plausible Missing Link of the Distant Action of Acetylcholine in the Cholinergic Anti-Inflammatory Pathway.](#)

Vijayaraghavan S, Karami A, Aeinehband S, Behbahani H, Grandien A, Nilsson B, Ekdahl KN, Lindblom RP, Piehl F, Darreh-Shori T.

PLoS One 2013 Jun; 8(6):e65936.

Application: Dot, WB, WB-Ti, Human, CSF, Plasma

Pathway

- [Glycerophospholipid metabolism](#)

Disease

- [Alzheimer disease](#)
- [Amnesia](#)
- [Bipolar Disorder](#)
- [Cardiovascular Diseases](#)
- [Cognition](#)
- [Cognition Disorders](#)
- [Depressive Disorder](#)
- [Diabetes Complications](#)

- [Diabetes Mellitus](#)
- [Edema](#)
- [Genetic Predisposition to Disease](#)
- [Hypercholesterolemia](#)
- [Mental Disorders](#)
- [Metabolic Syndrome X](#)
- [Neoplasms](#)
- [Neuropsychological Tests](#)
- [Osteoporosis](#)
- [Schizophrenia](#)
- [Schizophrenic Psychology](#)
- [Tobacco Use Disorder](#)
- [Weight Gain](#)