



Anti-CHAT (C-terminal) polyclonal antibody (CPBT-66662GM)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Product Overview	This product specifically recognises an epitope within the C-terminal (CT) region of mouse choline acetyltransferase (Chat), an enzyme which catalyzes the conversion of acetyl CoA and choline into the neurotransmitter acetylcholine (Ach), at both central and peripheral cholinergic synapses. Studies have linked abnormalities in Chat with the neurodegenerative disease Alzheimers, and also with schizophrenia and sudden infant death syndrome (SIDS). Western Blotting detects a band of approximately 75-80kDa in mouse and rat brain cell lysates.
Specificity	CHOLINE ACETYLTRANSFERASE
Immunogen	Peptide sequence C-KERARGPTKPSNLD corresponding to the C-Terminal region of choline acetyltransferase (NP_034021.1).
Isotype	IgG
Source/Host	Goat
Species Reactivity	Mouse, Rat
Conjugate	Unconjugated
Applications	ELISA; WB
Format	Purified IgG - liquid
Size	100 µg
Preservative	0.02% Sodium Azide
Storage	in frost-free freezers is not recommended. This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

GENE INFORMATION

Gene Name	Chat choline acetyltransferase [Mus musculus (house mouse)]
Official Symbol	CHAT
Synonyms	CHAT; choline acetyltransferase; B230380D24Rik; choline O-acetyltransferase; CHOACTase; choline acetylase; CHOLINE ACETYLTRANSFERASE;
Entrez Gene ID	12647
Protein Refseq	NP_034021
UniProt ID	Q03059
Chromosome Location	14 B; 14 19.4 cM
Pathway	Acetylcholine Neurotransmitter Release Cycle; Acetylcholine Synthesis; Biogenic Amine Synthesis; Cholinergic synapse; Glycerophospholipid biosynthesis; Glycerophospholipid metabolism; Metabolism; Metabolism of lipids and lipoproteins;
Function	choline O-acetyltransferase activity; choline binding; transferase activity; transferase activity, transferring acyl groups;