

## Rabbit antibody to ChAT (167-188): affinity purified

<b>Catalogue No.:</b>	R-1621-100
<b>Description:</b>	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. [provided by RefSeq, May 2010]
<b>Related products:</b>	PE-1762-100, ChAT control peptide (167-188)
<b>Unit size:</b>	100 ug
<b>Antigen:</b>	A synthetic peptide (GLFSSYRLPGHTQDTLVAQKSS) as a part of porcine ChAT protein (aa: 167-188) conjugated to KLH
<b>Other Names:</b>	Choline O-acetyltransferase, CHOACTase, Choline acetylase
<b>Accession:</b>	CLAT_PIG
<b>Produced in:</b>	NZ white rabbit
<b>Purity:</b>	Affinity purified
<b>Applications:</b>	IHC, 1 site ELISA. Use at a concentration of 1 ug/mL. This antiserum will superbly stain both cell bodies and nerve terminal. The optimal dilution should be determined by the end user.
<b>Specificity:</b>	This antibody stains cholinergic neurons in human, rat, guinea-pig and rabbit central and peripheral nervous systems.
<b>Cross-reactivity:</b>	This antiserum is known to react with ChAT of origin: human, rat, guinea-pig and rabbit.
<b>Form:</b>	Lyophilised
<b>Reconstitution:</b>	Reconstitute in 100 uL of sterile water. Centrifuge to remove any insoluble material.
<b>Storage:</b>	After reconstitution keep aliquots at -20C for a higher stability, and at 2-8C with an appropriate antibacterial agent. Glycerol (1:1) may be added for an additional stability. Avoid repetitive freeze/thaw cycles.
<b>Specific References:</b>	Leong WK, Klaric TS, Lin Y, Lewis MD, Koblar SA.(2013) Upregulation of the neuronal Per-Arnt-Sim domain protein 4 (Npas4) in the rat corticolimbic system following focal cerebral ischemia. Eur J Neurosci. 2013 Feb 22. doi: 10.1111/ejn.12163. [Epub ahead of print] Application: IH; species Rat
	PubMed ID
<b>References:</b>	Benecke et al. (1993). J. Neurochemistry. 61: 804-811

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