

Store at
-20°C

#27269

ChAT (E4F9G) Rabbit mAb



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For Research Use Only. Not for Use in Diagnostic Procedures.

Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
W	H M R	Endogenous	71	Rabbit IgG	#P28329	1103
Product Usage Information	Application					Dilution
	Western Blotting					1:1000
Storage	Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20°C. <i>Do not aliquot the antibody.</i>					
Specificity/Sensitivity	ChAT (E4F9G) Rabbit mAb recognizes endogenous levels of total human, mouse, and rat ChAT protein.					
Source / Purification	Monoclonal antibody is produced by immunizing animals with recombinant protein specific to the carboxy terminus of human ChAT protein.					
Background	Choline O-acetyltransferase (ChAT) catalyzes the synthesis of the neurotransmitter acetylcholine (ACh) from acetyl CoA and choline in the central and peripheral nervous system (1). In mammals, ACh is the primary neurotransmitter used at the neuromuscular junction, released by motor neurons to activate muscles. Neurons that release ACh are known as cholinergic neurons, which express high levels of ChAT. In addition to motor neurons, cholinergic neurons are present in the brain, particularly in the basal forebrain as well as other regions of the brain, including striatal interneurons. Reduction in ChAT, indicative of degeneration of cholinergic neurons, is correlated with cognitive decline in several neurodegenerative diseases, including Alzheimer's disease (2).					
Background References	1. Oda, Y. (1999) <i>Pathol Int</i> 49, 921-37. 2. Auld, D.S. et al. (2002) <i>Prog Neurobiol</i> 68, 209-45.					

Species Reactivity	Species reactivity is determined by testing in at least one approved application (e.g., western blot).
Western Blot Buffer	IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v nonfat dry milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.
Applications Key	W: Western Blotting
Cross-Reactivity Key	H: Human M: Mouse R: Rat
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