

TPH-1 (D10C10) Rabbit mAb



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Applications: W, IP	Reactivity: M	Sensitivity: Endogenous	MW (kDa): 51	Source/Isotype: Rabbit IgG	UniProt ID: #P17752	Entrez-Gene Id: 7166
Product Usage Information	•	Application Western Blotting Immunoprecipitation			Dilution 1:1000 1:50	
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.				
Specificity/Sensitivity		TPH-1 (D10C10) Rabbit mAb recognizes endogenous levels of total TPH-1 protein.				
Species predicted to react based on 100% sequence homology		Human				
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues near the carboxy terminus of human TPH-1 protein.				
Background		Tryptophan hydroxylase (TPH) is the rate-limiting enzyme in the biosynthesis of serotonin (1) by converting tryptophan to 5-hydroxy-L-tryptophan (2). Two isoforms of TPH exist: TPH-1 is mainly expressed in the periphery, whereas the expression of TPH-2 is restricted to neuronal cells and the central nervous system (3). Most of the serotonin found throughout the body is synthesized by TPH-1 in enterochromaffin cells of the gastrointestinal tract. Targeted disruption of the <i>tph1</i> gene results in low levels of circulating and tissue serotonin (4).				
Background References		 Hale, M.W. et al. (2011) <i>J Chem Neuroanat</i> 41, 219-26. Silva, S.R. et al. (2011) <i>Anticancer Res</i> 31, 1153-60. Walther, D.J. et al. (2003) <i>Science</i> 299, 76. Amireault, P. et al. (2011) <i>Proc Natl Acad Sci U S A</i> 108, 13141-6. 				
Species Reacti	vity	Species reactivity is det	ermined by testin	g in at least one approve	ed 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 IP: Immunoprecipitation

Cross-Reactivity Key

M: Mouse

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