e at -20C	TPH-1 (D10C10) Rabbit mAb	H.	<b>Cell Signaling</b> TECHNOLOGY®
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For Research Use Oni	y. Not for use in Diagnostic Procedure	s.

Applications: WB, IP	Reactivity: M	Sensitivity: Endogenous	<b>MW (kDa):</b> 51	Source/Isotype: Rabbit IgG	UniProt ID: #P17752	Entrez-Gene Id: 7166		
Product Usage Information	We	pplication estern Blotting munoprecipitation			<b>Dilution</b> 1:1000 1:50			
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 $\mu$ 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 react based on 100 sequence homolog	)%	nan						
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 Refer	2. S 3. W	1. Hale, M.W. et al. (2011) <i>J Chem Neuroanat</i> 41, 219-26. 2. Silva, S.R. et al. (2011) <i>Anticancer Res</i> 31, 1153-60. 3. Walther, D.J. et al. (2003) <i>Science</i> 299, 76. 4. Amireault, P. et al. (2011) <i>Proc Natl Acad Sci U S A</i> 108, 13141-6.						
Species Reactivity	Spec	cies reactivity is detern	mined by testing	g in at least one approve	ed application (e.g., we	estern 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		WB: Western Blotting IP: Immunoprecipitation						
Cross-Reactivity K	<b>X:</b> X	<ul> <li>H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster</li> <li>X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse</li> <li>GP: Guinea Pig Rab: rabbit All: all species expected</li> </ul>						
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TPH-1 (D10C10) Rabbit mAb (#12339) Datasheet Without Images Cell Signaling Technology

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