24 Store at -200

TPH2 (D3E5I) $XP^{\mathbb{R}}$ Rabbit mAb



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Applications: WB, IF-F	Reactivity: H M R	Sensitivity: Endogenous	MW (kDa): 52	Source/Isotype: Rabbit IgG	UniProt ID: #Q8IWU9	Entrez-Gene ld: 121278	
Product Usage Information	Ар	Application			Dilution		
	We	Western Blotting				1:1000	
	Imr	Immunofluorescence (Frozen)			1:1000		
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		TPH2 (D3E5I) Rabbit mAb recognizes endogenous levels of total TPH2 protein. Species cross-reactivity for Western blot is human and rat only. Mouse cross-reactivity is determine by immunofluoresence.					
Source / Purifica		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Leu30 of human TPH2 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). Polymorphisms and regulation of the <i>tph2</i> gene are involved in cognitive, emotional, and psychiatric disorders (5-7)					
Background Ref	2. S 3. W 4. A 5. W 6. C	ilva, S.R. et al. (201 /alther, D.J. et al. (2 mireault, P. et al. (2 /aider, J. et al. (201 hoong, M.Y. et al. (2	N. et al. (2011) J Chem Neuroanat 41, 219-26. R. et al. (2011) Anticancer Res 31, 1153-60. D.J. et al. (2003) Science 299, 76. t, P. et al. (2011) Proc Natl Acad Sci U S A 108, 13141-6 et al. (2011) Psychoneuroendocrinology 36, 393-405. M.Y. et al. (2014) Psychiatry Res 220, 1163-6. et al. (2015) Mol Med Rep 12, 3184-90.				

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 BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key

WB: Western Blotting IF-F: Immunofluorescence (Frozen)

Cross-Reactivity Key

H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse

GP: Guinea Pig Rab: rabbit All: all species expected

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TPH2 (D3E5I) XP® Rabbit mAb (#51124) Datasheet Without Images Cell Signaling Technology

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