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Store at -20C Phospho-Tyrosine Hydroxylase (Ser40) Antibody



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

Applications: F WB, IF-IC	Reactivity: R	Sensitivity: Endogenous	MW (kDa): 55-60	Source: Rabbit	UniProt ID: #P07101	Entrez-Gene Id: 7054	
Product Usage Information	Aj W Im	pplication estern Blotting munofluorescence (I	mmunocytochemis	try)		Dilution 1:1000 1:400	
Storage	Suj 20°	Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA and 50% glycerol. Store at – 20°C. Do not aliquot the antibody.					
Specificity / Sensitiv	i ty Pho who	Phospho-Tyrosine Hydroxylase (Ser40) Antibody detects endogenous levels of tyrosine hydroxylase only when phosphorylated at serine 40.					
Species predicted to react based on 100% sequence homology	Hu :	man, Mouse					
Source / Purification	Pol to t and	Polyclonal antibodies are produced by immunizing animals with a synthetic phosphopeptide corresponding to the sequence surrounding Ser40 of human tyrosine hydroxylase. Antibodies are purified by protein A and peptide affinity chromatography.					
Background	Tyr dop reg em trar cor reg act	osine hydroxylase (T pamine and other cate ulatory and catalytic bryonic development aslation and post-tran tains three serine res ulates the catalytic a vity of TH through sta	H) catalyzes the ra echolamines. TH fu domain, and exists since TH knockou Islational modificat sidues: Ser9, Ser3 ctivity of TH (4-6). abilization of TH pr	te-limiting step in th unctions as a tetram in several different t mice die before or ion regulate TH acti 1, and Ser40. Phos Phosphorylation at otein levels (7-9).	ne synthesis of the neuro ner, with each subunit con isoforms (1,2). This enzy at birth (3). Levels of tra vity. The amino-terminal phorylation at Ser40 by F Ser31 by CDK5 also incr	transmitter mposed of a yme is required for inscription, regulatory domain PKA positively eases the catalytic	
Background Referen	Ces 1. K 2. E 3. K 4. L 5. \ 6. L 7. N 8. L 9. S 10. K	Cumer, S.C. and Vran Bodeau-Péan, S. et a Cobayashi, K. et al. (1 ew, J.Y. et al. (1999) /ié, A. et al. (1999) J .indgren, N. et al. (20 /loy, L.Y. and Tsai, L.H .ehmann, I.T. et al. (20 Garaf, A. et al. (2007) Cawahata, I. et al. (20	a, K.E. (1996) J N I. (1999) J Biol Che 995) J Biol Chem Mol Pharmacol 55 Biol Chem 274, 16 00) J Neurochem H. (2004) J Biol Chem J Biol Chem 282, 15) Biochem Biop.	eurochem 67, 443-6 em 274, 3469-75. 270, 27235-43. , 202-9. 788-95. 74, 2470-7. em 279, 54487-93. 281, 17644-51. 573-80. hys Res Commun,			
Species Reactivity	Spe	cies reactivity is dete	rmined by testing i	n at least one appro	oved application (e.g., we	estern blot).	
Western Blot Buffer	IMP 0.19	ORTANT: For wester 6 Tween® 20 at 4°C v	n blots, incubate m with gentle shaking	embrane with dilute , overnight.	ed primary antibody in 5%	6 w/v BSA, 1X TBS,	
Applications Key	WB	: Western Blotting IF	-IC: Immunofluore	scence (Immunocyt	ochemistry)		
Cross-Reactivity Key	• H: h X: X GP:	uman M: mouse R: r enopus Z: zebrafish Guinea Pig Rab: rab	at Hm: hamster M B: bovine Dg: dog bbit AlI: all species	k: monkey Vir: virus Pg: pig Sc: S. cere expected	s Mi: mink C: chicken Dr evisiae Ce: C. elegans H	n: D. melanogaster r: horse	

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