Revision 5		
Tyrosine Hydroxylase (E2L6M) Rabbit mAb	C C	
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Applications: IHC-Bond, IHC-P, IF-F, IF-IC, FC-FP	Reactivity: H M R	Sensitivity: Endogenous	MW (kDa): 55-60	Source/Isotype: Rabbit IgG	UniProt ID: #P07101	Entrez-Gene Id 7054		
Product Usage Information		Application Western Blotting IHC Leica Bond Immunohistochemistry (Paraffin) Immunofluorescence (Frozen) Immunofluorescence (Immunocytochemistry)		iistry)	Dilution 1:1000 1:150 - 1:600 1:150 - 1:600 1:50 - 1:200 1:50 - 1:200 1:400 - 1:1600			
Storage		Flow Cytometry (Fixed/Permeabilized) 1:400 - 1:1600 Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less that 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.						
		For a carrier free (BSA and azide free) version of this product see product #81242.						
Specificity/Sensiti	vity	Tyrosine Hydroxylase (E2L6M) Rabbit mAb recognizes endogenous levels of total tyrosine hydroxylase protein.				osine hydroxylase		
Source / Purificati	on	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues near the carboxy terminus of human tyrosine hydroxylase protein.						
Background		dopamine and other regulatory and cataly for embryonic develo translation and post- domain contains thre positively regulates th	catecholamines. TH tic domain, and exis pment since TH kno translational modific e serine residues: S ne catalytic activity o	ate-limiting step in the s functions as a tetramer, sts in several different iso ockout mice die before o cation regulate TH activi er9, Ser31, and Ser40. Pl of TH (4-6). Phosphorylat zation of TH protein leve	with each subunit oforms (1,2). This e r at birth (3). Levels ty. The amino-term hosphorylation at S cion at Ser31 by CD	composed of a nzyme is required of transcription, inal regulatory ier40 by PKA		
Background Refe	rences	1. Kumer, S.C. and Vra 2. Bodeau-Péan, S. et 3. Kobayashi, K. et al. 4. Lew, J.Y. et al. (1999) 5. Vié, A. et al. (1999) 6. Lindgren, N. et al. (7. Moy, L.Y. and Tsai, I 8. Lehmann, I.T. et al. 9. Saraf, A. et al. (2007)	al. (1999) J Biol Che (1995) J Biol Chem 2)) Mol Pharmacol 55 J Biol Chem 274, 16 2000) J Neurochem L.H. (2004) J Biol Chem 2 (2006) J Biol Chem 2	m 274, 3469-75. 270, 27235-43. , 202-9. 788-95. 74, 2470-7. em 279, 54487-93. 281, 17644-51.				
Species Reactivity	,	Species reactivity is d	etermined by testin	g in at least one approve	ed application (e.g.,	western blot).		
Western Blot Buff	er	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		W: Western Blotting IHC-Bond: IHC Leica Bond IHC-P: Immunohistochemistry (Paraffin) IF-F: Immunofluorescence (Frozen) IF-IC: Immunofluorescence (Immunocytochemistry) FC-FP: Flow Cytometry (Fixed/Permeabilized)						
Cross-Reactivity K	ey	H: Human M: Mouse	R: Rat					
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