Dopamine β-Hydroxylase (DBH) Antibody 9828#



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

Applications: W	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 75-80	Source/Isotype: Rabbit	UniProt ID: #P09172	Entrez-Gene Id: 1621		
Product Usage Information		Application Western Blotting	Dilution 1:1000					
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA and 50% glycerol. Store a 20°C. Do not aliquot the antibody.			ycerol. Store at –			
Specificity/Sensitivity		Dopamine β -Hydroxylase (DBH) Antibody recognizes endogenous levels of total DBH protein.						
Source / Purification		Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Ala211 of human dopamine β-hydroxylase protein. Antibodies are purified by protein A and peptide affinity chromatography.						
Background		Dopamine β-Hydroxylase (DBH) is an enzyme of the copper type II ascorbate-dependent mono- oxygenase family. This enzyme forms homotetramers composed of two noncovalently bound disulfide- linked dimers and is found as both membrane-associated and soluble forms (1-3). The soluble form is present in the lumen of secretory granules (4) and is released from cells by exocytosis (5). DBH converts dopamine to noradrenaline (6). Deficiency in this enzyme causes a rare disease characterized by a complete absence of noradrenaline and adrenaline in plasma together with increased plasma dopamine levels (7). Orthostatic hypotension, the main symptom of DBH deficiency, can be alleviated by administration of dihydroxyphenylserine, a synthetic precursor of noradrenaline (8).						
Background Re	eferences	1. Smith, W.J. and Kirshner, N. (1967) <i>Mol Pharmacol</i> 3, 52-62. 2. Lagercrantz, H. (1976) <i>Neuroscience</i> 1, 81-92. 3. Winkler, H. (1976) <i>Neuroscience</i> 1, 65-80. 4. Laduron, P.M. (1975) <i>FEBS Lett</i> 52, 132-4. 5. Weinshilboum, R.M. et al. (1971) <i>Science</i> 174, 1349-51. 6. Kaufman, S. and Friedman, S. (1965) <i>Pharmacol Rev</i> 17, 71-100. 7. Robertson, D. et al. (1986) <i>N Engl J Med</i> 314, 1494-7. 8. Biaggioni, I. and Robertson, D. (1987) <i>Lancet</i> 2, 1170-2.						
Species Reactiv	vity	Species reactivity is de	termined by testing	g in at least one approve	ed application (e.g.,	western blot).		
Western Blot B	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 K	ey	W: Western Blotting						
Cross-Reactivit	у Кеу	H: Human						
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