Store at -20C

Dopamine β-Hydroxylase (DBH) Antibody



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

Applications: WB	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 75-80	Source: Rabbit	UniProt ID: #P09172	Entrez-Gene Id: 1621	
Product Usage Information	Ар	Application			Dilution		
	We	stern Blotting			1:1000		
Storage	•	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 / Sens	itivity Dop	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 Refe	2. Lá 3. W 4. Lá 5. W 6. K	agercrantz, H. (1976) finkler, H. (1976) <i>Ne</i> aduron, P.M. (1975) feinshilboum, R.M. aufman, S. and Frie	ner, N. (1967) Mol Pharmacol 3, 52-62.) Neuroscience 1, 81-92. uroscience 1, 65-80. FEBS Lett 52, 132-4. t al. (1971) Science 174, 1349-51. dman, S. (1965) Pharmacol Rev 17, 71-100. 986) N Engl J Med 314, 1494-7.				

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.

WB: Western Blotting **Applications Key**

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

8. Biaggioni, I. and Robertson, D. (1987) Lancet 2, 1170-2.

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Dopamine β-Hydroxylase (DBH) Antibody (#8586) Datasheet Without Images Cell Signaling Technology

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