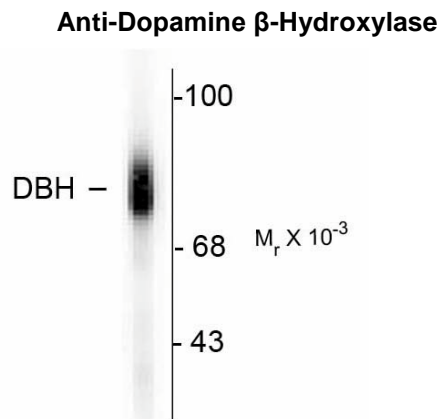


Pel-Freez[®]**Product Specifications****Anti-Dopamine β -Hydroxylase, C-Terminus****Size:** 100 μ l**Product Description:** Affinity purified sheep polyclonal antibody**Applications: WB:** 1:1000**Antigen:** Peptide from the C-terminal region of human dopamine β -hydroxylase (DBH), conjugated to keyhole limpet hemocyanin (KLH).**Species reactivity:** The antibody has been directly tested for reactivity in Western blots with human, mouse, and non-human primate tissue.**Biological Significance:** DBH catalyzes the conversion of dopamine to norepinephrine and serves as a marker of noradrenergic cells. DBH antibodies and antibodies for other markers of catecholamine biosynthesis are widely used as markers for dopaminergic and noradrenergic neurons in a variety of applications including depression, schizophrenia, Parkinson's disease and drug abuse (Kish et al., 2001; Zhu et al., 2000; Zhu et al., 1999). The expression of DBH is also elevated during stress (Sabban and Kvetnansky, 2001).

Western blot of human adrenal medulla lysate showing specific immunolabeling of the ~75k DBH protein.

Purification Method: Prepared from sheep serum by affinity purification using a Sulfo-Link[®] column matrix to which the peptide immunogen was coupled.

Antibody Specificity: Specific for the ~75k DBH protein in Western blots.

Quality Control Tests: Western blots performed on each lot.

References:

Kish SJ, Kalasinsky KS, Derkach P, Schmunk GA, Guttman M, Ang L, Adams V, Furukawa Y, Haycock JW (2001) Striatal dopaminergic and serotonergic markers in human heroin users. *Neuropsychopharmacology* 24:561-567.

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Zhu MY, Klimek V, Haycock JW, Ordway GA (2000) Quantitation of tyrosine hydroxylase protein in the locus coeruleus from postmortem human brain. *J Neurosci Meth* 99:37-44.

Zhu MY, Klimek V, Dilley GE, Haycock JW, Stockmeier C, Overholser JC, Meltzer HY, Ordway GA (1999) Elevated levels of tyrosine hydroxylase in the locus coeruleus in major depression. *Biol Psychiatry* 46:1275-1286.