



PhosphoSolutions®
Antibodies that work™

Colorado Biosciences Park
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Anti-Dopamine β -Hydroxylase, N-Terminus, Human

Catalog Number: 423-DBHN

Size: 100 μ l

Product Description: Affinity purified sheep polyclonal antibody

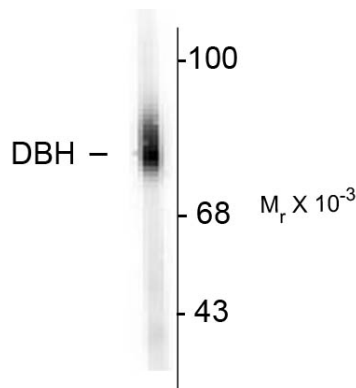
Applications: **WB:** 1:1000

Antigen: Peptide from the N-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 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).

Anti-Dopamine β -Hydroxylase



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.

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WB = Western Blot **IF** = Immunofluorescence **IHC** = Immunohistochemistry **IP** = Immunoprecipitation

PPackaging: 100 μ l in 10 mM HEPES (pH 7.5), 150 mM NaCl, 100 μ g per ml BSA and 50% glycerol. Adequate amount of material to conduct 10-mini Western Blots.

Storage and Stability. For long term storage -20°C is recommended. Stable at -20°C for at least 1 year.

Shipment: Domestic - Blue Ice; International - Blue Ice or Dry Ice.

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.
- Sabban EL, Kvetnansky R (2001) Stress-triggered activation of gene expression in catecholaminergic systems: dynamics of transcriptional events. *Trends Neurosci* 24:91-98.
- 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.

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