10320 Camino Santa Fe, Suite G
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Dopamine β-Hydroxylase, N-Terminus, Human Antibody

Affinity purified sheep polyclonal antibody
Catalog # AN1034

Specification

Dopamine β-Hydroxylase, N-Terminus, Human Antibody - Product Information

Application	**WB**
Primary Accession	P09172
Reactivity	**Human**
Host	**Sheep**
Clonality	**polyclonal**
Calculated MW	**75 KDa**

Dopamine β-Hydroxylase, N-Terminus, Human Antibody - Additional Information

Gene ID	**1621**
Gene Name	**DBH**

Other Names
Dopamine beta-hydroxylase, Dopamine beta-monooxygenase, Soluble dopamine beta-hydroxylase, DBH

Target/Specificity
Synthetic peptide corresponding to amino acid residues from the N-terminal region conjugated to KLH.

Dilution
WB~~ 1:1000

Format
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.

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
Dopamine β-Hydroxylase, N-Terminus, Human Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Shipping
Blue Ice

Dopamine β-Hydroxylase, N-Terminus, Human Antibody - Protocols

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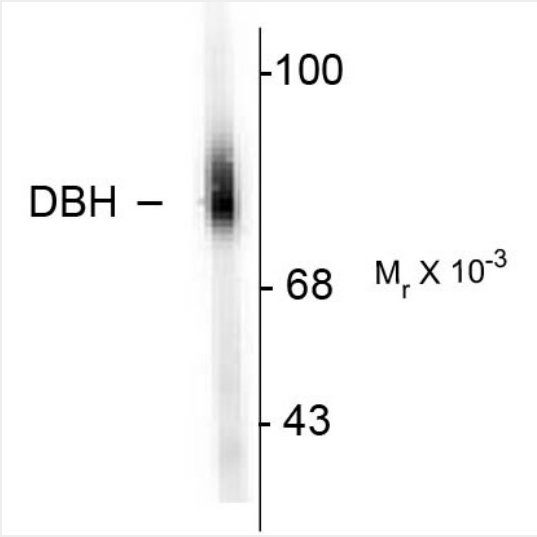
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Dopamine β-Hydroxylase, N-Terminus, Human Antibody - Images



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

Dopamine β-Hydroxylase, N-Terminus, Human Antibody - Background

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).

Dopamine β-Hydroxylase, N-Terminus, Human Antibody - 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.