

For Research Use Only

DBH Polyclonal antibody

Catalog Number: 10777-1-AP

3 Publications



Basic Information

Catalog Number:

10777-1-AP

Concentration:

600 ug/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG1196

GenBank Accession Number:

BC017174

GeneID (NCBI):

1621

UNIPROT ID:

P09172

Full Name:

DBH

Calculated MW:

64.8 kDa

Observed MW:

63 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB: 1:1000-1:8000

IHC: 1:50-1:500

IF-Fro: 1:50-1:500

IF/ICC: 1:200-1:800

FC (Intra): 0.40 ug per 10⁶ cells in a 100 µl suspension

Applications

Tested Applications:

WB, IHC, IF/ICC, IF-Fro, FC (Intra), ELISA

Cited Applications:

WB, IF

Species Specificity:

human, mouse

Cited Species:

human, mouse

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

WB : SH-SY5Y cells, NIH/3T3 cells, mouse brain tissue

IHC : mouse brain tissue, human liver cancer tissue

IF-Fro : rat brain tissue,

IF/ICC : SH-SY5Y cells, HeLa cells

FC (Intra) : SH-SY5Y cells,

Background Information

DBH belongs to the copper type II ascorbate-dependent monooxygenase family and catalyzes the oxidative hydroxylation of DBH to norepinephrine. It is almost exclusively located in the adrenal medulla and the synaptic vesicles of postganglionic sympathetic neurons (PMID:11857564). The DBH is glycosylated (63--67 kDa) while still in the membrane (PMID:2325165) and it can form a dimer (PMID:8546710).

Notable Publications

Author	Pubmed ID	Journal	Application
Yuan-Jun Qin	34571056	Peptides	WB
Shin Takasawa	35682548	Int J Mol Sci	WB
Yuan-Jun Qin	39970774	Tissue Cell	IF

Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

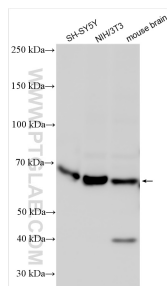
T: 4006900926

E: Proteintech-CN@ptglab.com

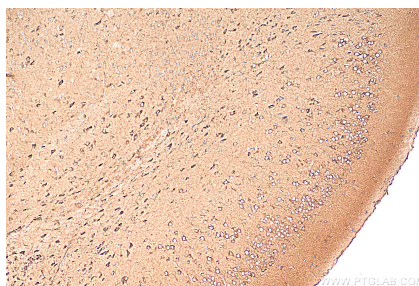
W: ptgcn.com

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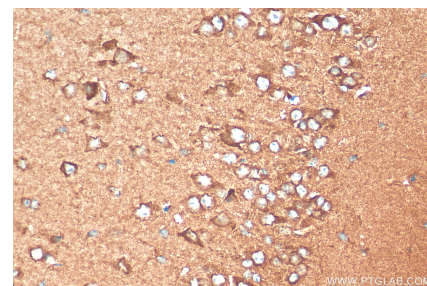
Selected Validation Data



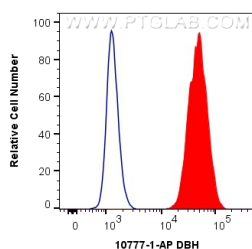
Various lysates were subjected to SDS PAGE followed by western blot with 10777-1-AP (DBH antibody) at dilution of 1:4000 incubated at room temperature for 1.5 hours.



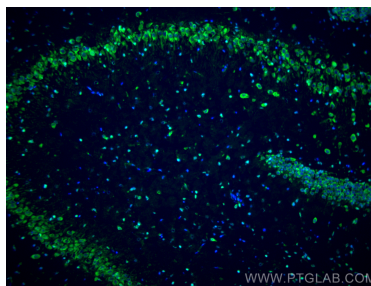
Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 10777-1-AP (DBH antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



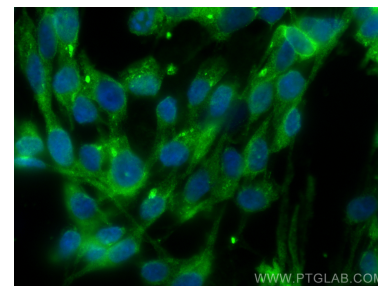
Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 10777-1-AP (DBH antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



1X10⁶ SH-SY5Y cells were intracellularly stained with 0.4 ug Anti-Human DBH (10777-1-AP) and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) at dilution 1:1000 (red), or 0.4 ug Isotype Control. Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).



Immunofluorescent analysis of (4% PFA) fixed frozen OCT-embedded rat brain tissue using DBH antibody (10777-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2).



Immunofluorescent analysis of (4% PFA) fixed SH-SY5Y cells using DBH antibody (10777-1-AP) at dilution of 1:400 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2).