

For Research Use Only

DOPA decarboxylase Polyclonal antibody



Catalog Number: 10166-1-AP **7 Publications**

Basic Information

| | | |
|--|---|--|
| Catalog Number: 10166-1-AP | GenBank Accession Number: BC008366 | Purification Method: Antigen affinity purification |
| Size: 150ul , Concentration: 200 µg/ml by Nanodrop and 173 µg/ml by Bradford method using BSA as the standard; | GeneID (NCBI): 1644 | Recommended Dilutions: WB 1:500-1:1000 IP 0.5-4.0 ug for IP and 1:500-1:1000 for WB |
| Source: Rabbit | Full Name: dopa decarboxylase (aromatic L-amino acid decarboxylase) | Observed MW: 48-50 kDa |
| Isotype: IgG | Calculated MW: 54 kDa | |
| Immunogen Catalog Number: AG0219 | | |

Applications

| | |
|--|--|
| Tested Applications: IHC, IP, WB, ELISA | Positive Controls: |
| Cited Applications: IF, IHC, WB | WB : mouse brain tissue, mouse kidney tissue |
| Species Specificity: human, mouse, rat | IP : mouse brain tissue, |
| Cited Species: human, mouse, rat | IHC : human liver cancer tissue, mouse brain tissue |
| Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0 | |

Background Information

Aromatic-L-amino-acid decarboxylase belongs to the pyridoxal-dependent aminotransferase superfamily. DDC catalyzes the decarboxylation of L-3,4-dihydroxyphenylalanine (DOPA) to dopamine, L-5-hydroxytryptophan to serotonin and L-tryptophan to tryptamine. DDC is the cause of aromatic L-amino-acid decarboxylase deficiency (AADC). Researches showed that Ddc is only one of the enzymes in the biosynthetic pathways for bioamines and catecholamines.

Notable Publications

| Author | Pubmed ID | Journal | Application |
|----------------|-----------|--------------|-------------|
| Mette Q Ludwig | 33767443 | Nat Metab | IHC |
| Ming Ming | 19558709 | J Transl Med | WB |
| Hao Qian | 32581380 | Nature | IF |

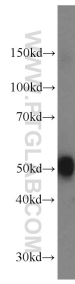
Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

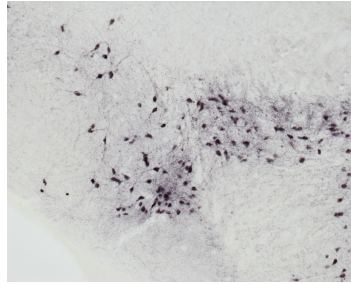
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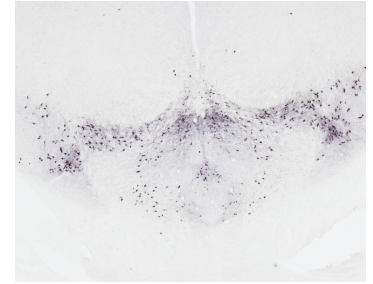
Selected Validation Data



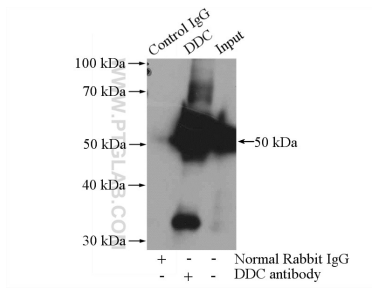
mouse brain tissue were subjected to SDS PAGE followed by western blot with 10166-1-AP (DOPA decarboxylase antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



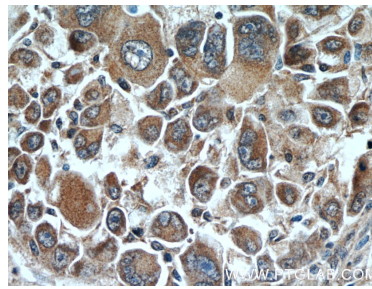
Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 10166-1-AP (DOPA decarboxylase antibody) at dilution of 1:5000 (under 10x lens). Data from NeuroScience Associates, Inc.



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 10166-1-AP (DOPA decarboxylase antibody) at dilution of 1:5000 (under 4x lens). Data from NeuroScience Associates, Inc.



IP Result of anti-DOPA decarboxylase (IP:10166-1-AP, 4ug; Detection:10166-1-AP 1:800) with mouse brain tissue lysate 4000ug.



Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 10166-1-AP (DOPA decarboxylase antibody) at dilution of 1:50 (under 40x lens).