NEUROMICS

Dopa decarboxylase (DDC) Data Sheet

Catalog Number:	MO15100	**Host:**	Mouse
Product Type:	Protein G purified IgG_1. Clone: 237208	**Species Reactivity:**	Human; Rat
Immunogen Sequence:	Hybridoma resulting from the fusion of a mouse myeloma with B cells obtained from a mouse immunized with purified, NS0-derived, recombinant human Cathepsin F (rhCathepsin F; Accession # NP_003784, aa 20 - 484).	**Format:**	Liquid 1mg/ml Solution in phosphate-buffered saline (PBS) with 5% Trehlose
Applications:	Immunohistochemistry -25 µg/mL Immunoprecipitation-25 µg/mL Western Blot-1 - 2 µg/mL Direct ELISA-.05-1.0 µg/mL		
	Dilutions listed as a recommendation. Optimal dilution should be determined by investigator.		
Storage:	Antibody can be aliquotted and stored frozen at -20° C to -70° C in a manual defrost freezer for six months without detectable loss of activity. The antibody can be stored at 2° - 8° C for 1 month without detectable loss of activity. *Avoid repeated freeze-thaw cycles.*		

Application Notes

Specificity
This antibody was selected for its ability to recognize human Cathepsin F in Immonohistochemistry, Immunoprecipitation, Western Blots and direct ELISAs. In direct ELISAs, this antibody does not cross-react with rhCathepsin B, C, L, O, S, V, X/Z/P, rmCathepsin F or H.

Immunoprecipitation:
This antibody was used at 25 µg/mL to immunoprecipitate Cathepsin F from conditioned media of transfected NS0 cells.

Western Blot
This antibody can be used at 1 - 2 µg/mL with the appropriate secondary reagents to detect human Cathepsin F. Using a chemiluminescent detection system, the detection limit for rhCathepsin F is approximately 25 ng/lane under non-reducing and reducing conditions.

Immunohistochemistry
This antibody was used at a concentration of 25 µg/mL with appropriate secondary reagents to detect Cathepsin F in paraffin-embedded normal human heart tissue sections.

Direct ELISA
This antibody can be used at 0.5 - 1.0 µg/mL with the appropriate secondary reagents to detect human Cathepsin F. The detection limit for rhCathepsin F is approximately 25 ng/well.

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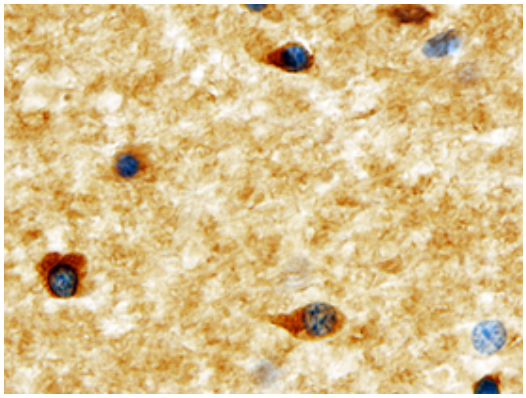
Description/Data:
Dopa decarboxylase (DDC), also known as AADC, is a homodimeric vitamin B6-dependent enzyme that catalyzes the decarboxylation of hydroxylated aromatic amino acids (Accession # P20711). DDC is expressed in the adrenal medulla and catecholaminergic neurons. It catalyzes the final step in the synthesis of the neurotransmitters dopamine and serotonin. Defects in DDC are associated with the development of schizophrenia, Parkinson's disease, and hypertension. Human DDC shares 89% aa sequence identity with mouse and rat DDC.

Image: DOPA decarboxylase staining of paraffin-embedded human caudate sections (dilution: 25 µg/ml). Tissue was stained using HRP-DAB (brown) and counterstained with hematoxylin (blue).



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