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PRODUCT DATA SHEET

Product Name: **ANTI-DOPA DECARBOXYLASE ANTIBODY**

Product Code: P40401-100

Pack Size: 100 µL

Description: DOPA decarboxylase (aromatic L-amino acid decarboxylase, AADC;DDC) catalyzes the second reaction in the biosynthesis of catecholamines and serotonin (Waymire and Haycock, 2002; Berry et al., 1996; Haycock et al., 2003). It is also involved in the biosynthesis of trace amines. DDC antibodies can therefore be used as markers for dopaminergic, noradrenergic and serotonergic 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).

Physical State: Liquid; Buffer contents: 10 mM HEPES (pH 7.5), 150 mM NaCl, 100 µg per mL BSA and 50% glycerol

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

Purification Method: Prepared from rabbit serum by affinity purification using an AminoLink® Plus column matrix to which purified, recombinant bovine DDC was coupled.

Shipping Conditions: Domestic: Blue Ice
International: Blue Ice or Dry Ice

Host Species: Rabbit (Polyclonal)

***Mr* (kDa):** 55

Immunogen: Peptide from N-terminus region of human DOPA decarboxylase (DDC), conjugated to keyhole limpet hemocyanin (KLH).

Species Reactivity: The antibody has been directly tested for reactivity in Western blots in bovine, canine, guinea pig, human, rabbit, rat and sheep tissues.

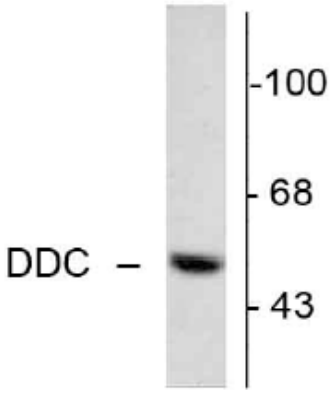
Recommended Antibody Dilutions:

WB: 1:1000

References:

1) Berry MD et al. (1996) Neurochem Res 21:1075-1087.
2) Haycock JW et al. (2003) J Neurochem 87:574-585.
3) Kish SJ et al. (2001) *Neuropsychopharmacology* 24:561-567.
4) Zhu MY et al. (2000) *J Neurosci Meth* 99:37-44.
5) Zhu MY et al. (1999) *Biol Psychiatry* 46:1275-1286.

Western Blot
5 µg of bovine adrenal medulla lysate showing specific immunolabeling of the ~55k DOPA decarboxylase protein.



Application Key: WB – Western Blot IF – Immunofluorescence IHC – Immunohistochemistry IP - Immunoprecipitation