Anti-DOPA Decarboxylase

Catalog Number: 417-DDC

Size: 100 µl

Product Description: Affinity purified rabbit polyclonal antibody

Applications: WB: 1:1000

Antigen: SDS denatured, recombinant bovine aromatic DOPA decarboxylase (DDC) expressed in E. coli and purified from inclusion bodies.

Species reactivity: The antibody has been directly tested for reactivity in Western blots in rat tissues.

Biological Significance: 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).

Western blot of rat adrenal medulla showing specific immunolabeling of the ~55k DDC protein.

WB = Western Blot  IF = Immunofluorescence  IHC = Immunohistochemistry  IP = Immunoprecipitation

PPackaging: 100 µl in 10 mM HEPES (pH 7.5), 150 mM NaCl, 100 µg per ml BSA and 50% glycerol. Adequate amount of material to conduct 10-mini Western Blots.

Storage and Stability. For long term storage –20°C is recommended. Stable at –20°C for at least 1 year.

Shipment: Domestic - Blue Ice; International – Blue Ice or Dry Ice
**Purification Method:** Prepared from rabbit serum by affinity purification using an AminoLink® Plus column matrix to which purified, recombinant bovine DDC was coupled.

**Antibody Specificity:** Specific for the ~55k DDC protein.

**Quality Control Tests:** Western blots performed on each lot.

**Product Specific References:**

**References:**