

Anti- DOPA Decarboxylase

CATALOG NO.: XPS-2000

FORM: Affinity Purified

BACKGROUND:

Aromatic L-amino acid decarboxylase (AADC; DOPA decarboxylase; DDC) catalyzes the second reaction in the biosynthesis of catecholamines and serotonin. It is also involved in the biosynthesis of trace amines.

SOURCE:

Rabbit anti-DOPA Decarboxylase polyclonal antibody was raised against a SDS denatured, recombinant bovine aromatic DDC expressed in *E. coli* and purified from inclusion bodies. Rabbit anti-DOPA Decarboxylase was prepared from rabbit serum by affinity purification using an AminoLink Plus column matrix to which purified, recombinant bovine DDC was coupled.

APPLICATION:

This polyclonal antibody is specific immunolabeling of the ~55k DDC protein in Western blots of rat adrenal medulla. Applications include Dot Blots (DB) and Western Blots (WB). Recognizes DDC in rat adrenal medulla and caudate. When internally tested under ideal conditions the working dilutions were 1:1000 for DB and WB.

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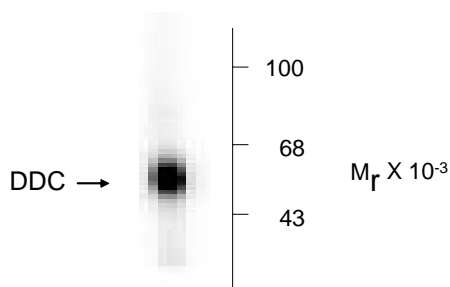


Figure: Western blot of rat adrenal medulla. As shown in the autoradiograph, the antibody is specific for the ~55k DDC protein. **This product is for research use only.**

STORAGE:

It is supplied as affinity purified polyclonal antibody, 100 μ l in 10 mM HEPES (pH 7.5), 150 mM NaCl, 100 μ g per ml BSA and 50% glycerol, and there is adequate amount of material to conduct 10-mini Western Blots. For long term storage -80°C is recommended, but shorter term storage at -20°C is also acceptable as aliquots may be taken without freeze/thawing due to the presence of 50% glycerol. Stock solutions are stable for a minimum of 1 year at -20°C .



REFERENCES:

1. Haycock, J.W., Becker, L., Ang, L., Furukawa, Y., Hornykiewicz, O., and Kish, S.J., "*Marked disparity between age-related changes in dopamine and other presynaptic dopaminergic markers in human striatum,*" *J. Neurochem.* **87** (2003) 574 - 585.
2. Waymire, J.C. and Haycock, J.W. "*Lack of regulation of aromatic L-amino acid decarboxylase in intact bovine chromaffin cells,*" *J. Neurochem.* **81** (2002) 589 - 593.
3. Berry, M.D., Juorio, A.V., Li, X.M., and Boulton, A.A. "*Aromatic L-amino acid decarboxylase: a neglected and misunderstood enzyme,*" *Neurochem. Res.* **21** (1996) 1075 -1087.