

Product Specification Sheet

Dopamine Antibodies

Cat # DOP12-M

Mouse Monoclonal Anti-Dopamine IgG

SIZE: 100 ug

Source of Antigen and Antibodies

Antigen	Dopamine was coupled to BSA using formaldehyde
Ab Host/type	Balb/c mouse . Splenocytes were fused with Sp2/0 myeloma cells. Resulting clone (designated DOp12, isotype IgG1), selected for reactivity with dopamine, was expanded into mice as ascites . Antibody has been purified by Protein A/G column chromatography.
2-Ab	Goat Anti-mouse IgG-HRP conjugate Cat # 40320 (AP, biotin, FITC conjugates also available)
-ve control IgG	Cat # 20008-1, Mouse (non-immune) Serum IgG, purified, suitable for ELISA, Western, IHC as -ve control

Form & Storage of Antibodies/Peptide Control

Affinity pure IgG

100 ug/100ul solution lyophilized powder

Supplied in **Buffer**: PBS+0.1% BSA

Reconstitute powder in PBS at 1mg/ml

Storage

Short-term: unopened, undiluted liquid vials at -20OC and powder at 4oC or -20oC..

Long-term: at -20C or below in suitable aliquots after reconstitution. Do not freeze and thaw and store working, diluted solutions.

Stability: 6-12 months at -20oC or below.

Shipping: 4oC for solutions and room temp for powder.

Recommended Usage

The product may be used to localize dopaminergic neurons of substantia nigra and the A10 regions as well as dopaminergic nerve terminals of locus coeruleus. Antibody dilution will depend upon the experimental conditions and may vary from 1:250-1:1000. Antibody tier by dot blot is 1:5K using dopamine coupled to a carrier protein.

Since the antibodies are made to the BSA-conjugates, the use of BSA in all buffers and antibody diluents must be avoided.

Specificity & Cross-reactivity

Anti-dopamine should react with dopamine from all species. DOP12-M has an affinity constant of $K_d=1 \times 10^{-6}M$ for Dopamine-BSA. Unconjugated catecholamines (dopamine, noradrenaline, and adrenaline) are recognize with much lower affinity. Other Dopamine analogs and metabolites are not recognized. DOP12-M inhibits Dopamine binding to D2-receptor at 1 uM. .

General References:

Yang C et al (1991) J. Comp. Neurol. 312, 19-32

*This product is for In vitro research use only.

Related material available from ADI

Anti-Dopamine receptors D1-D5, DBH, DDC

Anti-Rabbit IgG-HRP Conjugate and ECL Reagents

NuGlo Chemiluminescent Substrate Kit

Western Blot Recycling Kit (Strips blots in 5 minutes)

DOP2-M 71219A