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### **Anti-Conjugated Dopamine MOUSE MONOCLONAL**

**Catalog Number:** AB-T11  
**Quantity:** 50 microliters  
**Format:** Lyophilized and reconstituted with deionized water / 50% glycerol  
**Host:** Mouse  
**Isotype:** IgG1, Kappa  
**Clone:** HYDA001  
**Immunogen:** Synthetic dopamine conjugated to bovine serum albumin

#### **Specificity and Preparation:**

Monoclonal antibody was obtained after BALB/c mouse immunization with the conjugates: Dopamine-Carrier proteins and hybridization of spleen cells with the myeloma cell line SP2/O/Ag14. Ascites production was performed in BALB/c mice. The ascites fluid was purified by ammonium sulfate precipitation.

This antibody targets conjugated dopamine. **This antibody does not recognize free dopamine.**

Using a conjugate Dopamine-Glutaraldehyde-BSA, antibody specificity was performed with an ELISA test by competition experiments with the following compounds:

<b>COMPOUND</b>	<b>CROSS REACTIVITY §</b>
Dopamine-G-BSA	1
L-DOPA-G-(Pc)	1/10,000
Tyrosine-G-(Pc)	1/36,000
Tyramine-G-(Pc)	1/>50,000
Noradrenaline-G-(Pc)	1/>50,000
Octopamine-G-(Pc)	1/>50,000
Adrenaline-G-(Pc)	1/>50,000
Dopamine	1/>50,000

G = Glutaraldehyde, BSA = bovine serum albumin

§ Dopamine-G-BSA concentration/unconjugated or conjugated catecholamine concentration at half displacement.

#### **Usage and Storage:**

Applications include ELISA (1/1,000-1/5,000); immunocytochemistry; immunohistochemistry (1/1,000-1/5,000); and immunoblotting (western blot, 1/1,000-1/2,000). Fixation of tissue for use with these antibodies should be done with glutaraldehyde. The use of paraformaldehyde in conjunction with glutaraldehyde may improve staining results. Store the antibody at 4°C for one month or -20°C in undiluted aliquots for up to one year. Avoid repeated freezing and thawing. Gently spin down material before use; 5-10 seconds in a microfuge should be adequate.

**Available Control(s):** Dopamine-G-BSA

#### **References:**

1. Goldman-Rakic PS, Leranath C, Williams SM, Mons N, Geffard M. (1989) Dopamine synaptic complex with pyramidal neurons in primate cerebral cortex. *Proc Natl Acad Sci USA* 86:9015-9019.
2. Schürmann FW, Elekes K, Geffard M. (1989) Dopamine-like immunoreactivity in the bee brain. *Cell Tissue Res* 256:399-410.

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