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### **Anti-Conjugated Dopamine RABBIT POLYCLONAL**

**Catalog Number:** AB-T07  
**Quantity:** 50 microliters  
**Format:** Lyophilized and reconstituted with deionized water / 50% glycerol  
**Host:** Rabbit  
**Isotype:** IgG  
**Immunogen:** Synthetic dopamine conjugated to bovine serum albumin

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

Antiserum previously preabsorbed on protein carriers and 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
Noradrenaline-G-(Pc)	1/200
L-DOPA-G-(Pc)	1/400
Ocopamine-G-(Pc)	1/400
Tyramine-G-(Pc)	1/>5,000
Adrenaline-G-(Pc)	1/>5,000
Dopamine	1/>5,000

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); 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. Dabadie H, Mons N, Geffard M. (1990) Simultaneous detection of tryptamine and dopamine in rat substantia nigra and raphe nuclei using specific antibodies. *Brain Res* 512:138-142.
2. Chagnaud JL, Mons N, Tuffet S, Grandier-Vazeilles X, Geffard M. (1987) Monoclonal antibodies against glutaraldehyde-conjugated dopamine. *J Neurochem* 49:487-494 .
3. Decavel C, Lescaudron L, Mons N, Calas A. (1987) First visualization of dopaminergic neurons with a monoclonal antibody to dopamine: a light and electron microscopic study. *J Histochem Cytochem* 35:1245-1252.

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