



6352 CORTE DEL ABETO, STE B  
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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:

COMPOUND	CROSS REACTIVITY §
Dopamine-G-BSA	1
Noradrenaline-G-(Pc)	1/200
L-DOPA-G-(Pc)	1/400
Octopamine-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:**

Tested applications include immunocytochemistry and ELISA. Optimal dilutions should be determined by each laboratory for each application. Fixation for use with these antibodies should be done with glutaraldehyde.

Protocols for other potential applications can be found on the website: <http://atsbio.com/support/protocols>. 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.

**To view protocol(s) for this and other products please visit: [www.ATSBio.com/support/protocols](http://www.ATSBio.com/support/protocols)**