

**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 & 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:

Usage: 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. The use of paraformaldehyde in conjunction with glutaraldehyde may improve staining results.

Storage: 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 5-10 seconds in a microfuge before use.

| 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.

**Selected 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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