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CARLSBAD, CA 92011 USA  
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### Anti-Conjugated Octopamine RABBIT POLYCLONAL

**Catalog Number:** AB-T070  
**Quantity:** 50 microliters  
**Format:** Lyophilized and reconstituted with deionized water / 50% glycerol  
**Host:** Rabbit  
**Isotype:** IgG  
**Immunogen:** Synthetic octopamine conjugated to bovine serum albumin

#### Specificity and Preparation:

Antiserum previously preabsorbed on protein carriers and purified by ammonium sulfate precipitation.

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

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

COMPOUND	CROSS REACTIVITY §
Octopamine-G-BSA	1
Tyramine-G-(Pc)	1/400
Noradrenaline-G-(Pc)	1/10,000
Tyrosine-G-(Pc)	1/>50,000
Dopamine-G-(Pc)	1/100,000

G = Glutaraldehyde, BSA = bovine serum albumin

§ Octopamine-G-BSA concentration/other conjugated catecholamine concentration at half displacement.

#### Usage and Storage:

Tested applications include immunocytochemistry. 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):** Octopamine-G-BSA

#### References:

1. Mons N, Geffard M (1987) Specific antisera against the catecholamines: L-3,4- dihydroxyphenylalanine, dopamine, noradrenaline and octopamine tested by an enzyme-linked immunosorbent assay. *J Neurochem* 48:1826-1833.
2. Sinakevitch I I, Geffard M, Pelhate M, Lapied B (1995) Octopaminergic dorsal unpaired median (DUM) neurones innervating the colleterial glands of the female cockroach *Periplaneta americana*. *J Exp Biol* 198 (7):1539-1544.
3. Strausfeld NJ, Sinakevitch I, Vilinsky I (2003) The mushroom bodies of *Drosophila melanogaster*: an immunocytological and golgi study of Kenyon cell organization in the calyces and lobes. *Microsc Res Tech* 62(2):151-169.

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