

## SUMMARY

shipped on blue ice; store at -20 °C

For research use only

## Description

Polyclonal antisera were raised in rabbits after immunization with the conjugates: Octopamine-glutaraldehyde-carriers.

**Contents:** The antibody is supplied in a unit size of 50 µl in PBS with 50% glycerol.

## Storage and Handling

When this product is stored undiluted at -20 °C or lower, it is stable for at least 2 years. Multiple freezing and thawing is only possible up to 5 times. The antibodies can be prediluted 10x in PBS containing 0.1% merthiolate or a mixture of PBS/glycerol (1:1, vol./vol.). At 4 °C these solutions are stable for 2 months.

## Specificity

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

Compound	Cross-reactivity ratio <sup>(a)</sup>
Octopamine-G-BSA	1
Noradrenaline-G-BSA	1: 90
Tyramine-G-BSA	1: 142
L-DOPA-G-BSA	1: 285
Octopamine=G=BSA (b)	1: 442
Dopamine-G-BSA	1: 1,120
Adrenaline-G-BSA	1: >10,000
Octopamine	1: >10,000

a: Octopamine-G-BSA concentration/unconjugated or conjugated catecholamine concentration at half displacement.

b: Non-reduced conjugate

G = Glutaraldehyde, BSA = Bovine Serum Albumine

## Recommended dilution

The anti-conjugated Octopamine antibodies can be diluted 1:2,000 to 1:5,000.

## References

MONS N. and GEFFARD M., Specific antisera against the catecholamines: L-3,4-dihydroxyphenylalanine, dopamine, noradrenaline and octopamine tested by and enzyme-linked immunosorbent assay. *J. Neurochem.*, (1987) 48, 1826-1833.

KONINGS P.N.M., VULLINGS H.G.B., GEFFARD M., BUIJS R.M., DIEDEREN J.H.B. and JANSEN W.F., Immunocytochemical demonstration of octopamine-immunoreactive cells in the nervous system of *Locusta migratoria* and *Shistocerca gregaria*. *Cell and Tissue Res.* (1988), 251, 371- 379.

SINAKEVITCH I.G., GEFFARD M., PELHATE M. and LAPIED B., Octopamine-like immunoreactivity in the dorsal unpaired median (DUM) neurons innervating the accessory gland of the male cockroach *Periplaneta americana*. *Cell and Tissue Res.*, (1994) 276, 15-21.

SINAKEVITCH I., GEFFARD M., PELHATE M. and LAPIED B., Octopaminergic dorsal unpaired median (DUM) neurones innervating the collateral glands of the female cockroach *Periplaneta americana*. *The J. of Exp. Biol.*, (1995) 198, 1539-1544.

## Order Information, Shipping and Storage

Order#	Product	Quantity
1003GE	Anti-Conjugated Octopamine	50 µl
shipped on blue ice; store at -20 °C		

## Contact and Support

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