

**Anti-Conjugated Noradrenaline
RABBIT POLYCLONAL**

Catalog Number: AB-T06
Quantity: 50 microliters
Format: Lyophilized and reconstituted with deionized water / 50% glycerol
Host: Rabbit
Isotype: IgG
Immunogen: Synthetic noradrenaline conjugated to bovine serum albumin

Specificity and Preparation:

Antiserum previously preabsorbed on protein carriers and purified by ammonium sulfate precipitation. This antibody targets conjugated noradrenaline. **This antibody does not recognize free noradrenaline.** Using a conjugate Noradrenaline-G-BSA, antibody specificity was performed with an ELISA test by competition experiments with the following compounds:

COMPOUND	CROSS REACTIVITY §
Noradrenaline-G-BSA	1
Octopamine-G-(Pc)	1/30
Dopamine-G-(Pc)	1/70
Adrenaline-G-(Pc)	1/180
L-DOPA-G-(Pc)	1/>5,000
Tyramine-G-(Pc)	1/>5,000
Noradrenaline	1/>5,000

G = Glutaraldehyde, BSA = bovine serum albumin

§ Noradrenaline-G-BSA concentration/unconjugated or conjugated catecholamine concentration at half displacement

Usage and Storage:

Applications include ELISA (1/1,000-1/5,000);⁴ immunocytochemistry (paraffin);^{1,2} immunohistochemistry (frozen, 1/1,000-1/5,000)³, 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): Noradrenaline-G-BSA

References:

1. Ridet JL, Rajaofetra N, Teilhac JR, Geffard M, Privat A. (1993) Evidence for monosynaptic serotonergic and noradrenergic innervation of the rat dorsal horn and possible involvement of neuron-glia interaction. *Neurosci* 52:143-157.
2. Rajaofetra N, Ridet JL, Poulat P, Marlier L, Sandillon F, Geffard M, Privat A. (1992) Immunocytochemical mapping of noradrenergic projections to the rat spinal cord with an antiserum against noradrenaline. *J Neurocytol* 21:481-494.
3. Fritschy JM, Geffard M, Grzanna R (1990) The response of noradrenergic axons to systemically administered DSP-4 in the rat: an immunohistochemical study using antibodies to noradrenaline and dopamine-beta-hydroxylase. *J Chem Neuroanat* 3(4):309-321.
4. Geffard M, Patel S, Dulluc J, Rock AM (1986) Specific detection of noradrenaline in the rat brain by using antibodies. *Brain Res* 363:395-400.

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