

**Anti-Conjugated 5-Hydroxytryptamine (Serotonin)
RABBIT POLYCLONAL**

Catalog Number: AB-T03
Quantity: 50 microliters
Format: Lyophilized and reconstituted with deionized water / 50% glycerol
Host: Rabbit
Isotype: IgG
Immunogen: Synthetic 5-Hydroxytryptamine conjugated to bovine serum albumin

Specificity and Preparation:

Antiserum previously preabsorbed on protein carriers and purified by ammonium sulfate precipitation. This antibody targets conjugated 5-Hydroxytryptamine. **This antibody does not recognize free 5-Hydroxytryptamine.**

Using a conjugate 5-hydroxytryptamine-Glutaraldehyde-BSA, antibody specificity was performed with an ELISA test by competition experiments with the following compounds:

COMPOUND	CROSS REACTIVITY §
5-Hydroxytryptamine-G-BSA	1
5-Methoxytryptamine-G-(Pc)	1/25
Tryptamine-G-(Pc)	1/50
5-Hydroxytryptophan-G-(Pc)	1/175
5-Hydroxytryptamine	1/1,150
Tryptophan-G-(Pc)	1/3,500
5-Methoxytryptophan-G-(Pc)	1/20,000

G = Glutaraldehyde, BSA = bovine serum albumin

§ 5-Hydroxytryptamine-G-BSA concentration/unconjugated or conjugated indolealkylamine concentration at half displacement.

Usage and Storage:

Applications include ELISA (1/1,000-1/5,000), immunocytochemistry, immunohistochemistry (1/1,000-1/5,000), and 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): 5-Hydroxytryptamine-G-BSA

References:

1. Moukhles H, Bosler O, Bolam JP, Vallee A, Umbriaco D, Geffard M, Doucet G. (1997) Quantitative and morphometric data indicate precise cellular interactions between serotonin terminals and postsynaptic targets in rat substantia nigra. *Neurosci* 76(4):1159-1171.
2. Arai R, Karasawa N, Geffard M, Nagatsu I. (1995) L-DOPA is converted to dopamine in serotonergic fibers of the striatum of the rat: a double-labeling immunofluorescence study. *Neurosci Lett* 195:195-198.
3. Dabadie H. and Geffard M. (1993) Identification of tryptamine and tryptamine-serotonin neurons in the rat dorsal raphe nuclei using specific antibodies. *Synapse* 14:178-183.
4. Geffard M, Dulluc J, Heinrich-Rock AM. (1985) Antisera against the indolealkylamines: tryptophan, 5-hydroxytryptophan, 5-hydroxytryptamine, 5-methoxytryptophan and 5-methoxytryptamine tested by an enzyme-linked immunosorbent assay method. *J Neurochem* 44:1221-1228.

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