ADVANCED TARGETING SYSTEMS

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Anti-Conjugated Tryptamine
RABBIT POLYCLONAL

Catalog Number: AB-T04
Quantity: 50 microliters
Format: Lyophilized and reconstituted with deionized water / 50% glycerol
Host: Rabbit
Isotype: IgG
Immunogen: Synthetic tryptamine conjugated to bovine serum albumin

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

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

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

COMPOUND	CROSS REACTIVITY §
Tryptamine-G-BSA	1
5 Hydroxytryptamine-G-(Pc)	1/50
5 Methoxytryptamine-G-(Pc)	1/60
Tryptamine	1/2,000
Tryptophan-G-(Pc)	1/3,000
5 Methoxytryptophan-G-(Pc)	1/6,000
5 Hydroxytryptophan-G-(Pc)	1/50,000

G = Glutaraldehyde, BSA = bovine serum albumin
§ Tryptamine-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): Tryptamine-G-BSA

References:
1. Geffard M, Tuffet S, Peuble L, Patel S. (1988) Production of antisera to serotonin and their metabolites and their use in immunocytochemistry. In: Neuronal Serotonin (Eds N. N. Osborne and M.Hamon). John Wiley and Sons Ltd., pp 1-23.
2. Tison F, Geffard M, Henry P. (1990) Tryptamine is found closely associated to the serotoninergic pathways when using an immunohistochemical method of detection in the rat central nervous system. Biogenic Amines 7:235-248.
3. 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.
4. 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.

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