ADVANCED TARGETING SYSTEMS

10451 ROSELLE STREET, #300, SAN DIEGO, CA 92121
TELEPHONE (858) 642-1988 • FAX (858) 642-1989
WWW.ATSBIO.COM • ATS@ATSBIO.COM

# Anti-Conjugated 5-Hydroxytryptophan
# RABBIT POLYCLONAL

**Catalog Number:** AB-T09
**Quantity:** 50 microliters
**Format:** Lyophilized and reconstituted with deionized water / 50% glycerol
**Host:** Rabbit
**Isotype:** IgG
**Immunogen:** 5-Hydroxytryptophan-Glutaraldehyde-BSA

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

This antibody targets conjugated 5-Hydroxytryptophan. **This antibody does not recognize free 5-Hydroxytrptophan.**

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

| COMPOUND | CROSS REACTIVITY § |
|---|---|
| 5-Hydroxytryptophan-G-BSA | 1 |
| 5-Methoxytryptophan-G-(Pc) | 1/2,000 |
| Tryptophan-G-(Pc) | 1/50,000 |
| 5-Hydroxytryptamine-G-(Pc) | 1/50,000 |
| Tryptamine-G-(Pc) | 1/>50,000 |
| 5-Hydroxytryptophan | 1/>50,000 |

G = Glutaraldehyde, BSA = bovine serum albumin
§ 5-Hydroxytryptophan-G-BSA concentration/unconjugated or conjugated indolealkylamine concentration at half displacement.

**Usage and Storage:**
Applications include ELISA (1/1,000-1/5,000)[1], immunocytochemistry, immunohistochemistry (1/1,000 -1/5,000), 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-Hydroxytryptophan-G-BSA

**References:**
1. Geffard M, Touret M, Kitahama, K. (1987) First characterization of 5-hydroxytryptophan in rat brain by using specific antibodies. Brain Res 426:191-196.
2. Touret M, Kitahama K, Geffard M, Jouvet, M. (1987) 5-hydroxytryptophan (5-HTP)-immunoreactive neurons in the rat brain tissue. Neurosci Lett 80:263-267.
3. Touret M, Sarda N, Gharib A, Geffard M, Jouvet M. (1991) The role of 5-hydroxytryptophan (5-HTP) in the regulation of the sleep/wake cycle in parachlorophenylalanine (p-CPA) pretreated rat: a multiple approach study. Exp Brain Res 86:117-124.

**To view protocol(s) for this and other products please visit: www.ATSbio.com/protocols**