



## Product Information Sheet

### Polyclonal Anti- Histamine Receptor H3, **HRH3** (Magnetic Bead Conjugate)

**Catalogue No.** PA1204-M

**Immunogen**

**Lot No.** 09A01

A synthetic peptide corresponding to a sequence at the C-terminal of human HRH3, different to the related rat sequence by two amino acids.

**Ig type:** rabbit IgG1

**Purification**

**Size:** 100µg/Vial

Immunogen affinity purified

**Specificity**

Human, mouse, rat.

No cross reactivity with other proteins.

**Contents**

Each vial contains 1mg/ml Magnetic Bead in PBS, pH 7.2, 0.05mg NaN<sub>3</sub>.

**Storage**

Store at 4°C for frequent use.

**Recommended application**

*Immunoprecipitation(IP)*

**Description:**

This Antagene antibody is immobilized by the covalent reaction of hydrazinonicotinamide-modified antibody with formylbenzamide-modified magnetic

#### BACKGROUND

The histamine receptor H3 (HRH3) is a presynaptic autoreceptor on histamine neurons in the brain and a presynaptic heteroreceptor in nonhistamine-containing neurons in both the central and peripheral nervous systems<sup>1</sup>. The deduced 445-amino acid HRH3 protein contains 7 predicted transmembrane domains. And it shares 22% and 21.4% amino acid sequence homology with the H1 (HRH1) and H2 (HRH2) receptors, respectively. The expression of recombinant HRH3 in a variety of cell lines conferred an ability to inhibit adenylate cyclase in response to histamine, but not to acetylcholine or any other biogenic amine. Additionally, HRH3 was most notably observed throughout the thalamus, the ventromedial hypothalamus, and the caudate nucleus. Strong expression was also seen in layers II, V, and VIb of the cerebral cortex, in the pyramidal layers of the hippocampus, and in olfactory tubercle.

#### REFERENCE

1. Hill, S. J.; Ganellin, C. R.; Timmerman, H.; Schwartz, J. C.; Shankley, N. P.; Young, J. M.; Schunack, W.; Levi, R.; Haas, H. L. : International Union of Pharmacology. XIII. Classification of histamine receptors. *Pharm. Rev.* 49: 253-278, 1997.

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