

**Product Specification Sheet**  
**Histamine Antibodies and conjugates**

|                          |  |                     |
|--------------------------|--|---------------------|
| <b>Cat. HIST12-A</b>     | Rabbit Anti-Histamine IgG, affinity pure           | <b>SIZE:</b> 100 ug |
| <b>Cat. HIST12-N-100</b> | Histamine-BSA Protein conjugate (blocking antigen) | <b>SIZE:</b> 100 ug |

Histamine [2-4-Imidazolyl]ethylamine] is produced by decarboxylation of its precursor, histidine, by histidine decarboxylase. It is widely distributed compound in peripheral tissues, where it influences a variety of physiological activities including inflammation, gastric acid secretion, and smooth muscle contraction. Histamine is localized in mast cells, neuronal cells, and neuroendocrine cells of the gastric tract, lung, and kidney, in cerebrovascular endothelial cell, and in the peripheral nervous system. It has potent vasodilatory and plasma extravasation effects on capillaries when secreted from mast cells in allergic hypersensitivity responses or inflammation. Histamine interacts with at least 3 receptor subtypes: H1, H2, H3 receptors that differ in their pharmacological properties.

**Source of Antigen and antibodies**

|                        |   |
|------------------------|---|
| <b>Antigen</b>         | Histamine was coupled with succinylated-KLH   |
| <b>Ab Host/type</b>    | Rabbit, Polyclonal IgG, purified over antigen-agarose (Cat # <b>HIST12-A</b> )                          |
| <b>2-Ab</b>            | Cat # 20320, goat anti-rabbit IgG-HRP (AP, biotin, FITC conjugates also available).                     |
| <b>-ve control IgG</b> | Cat # 20009-1, Rabbit (non-immune) Serum IgG, purified, suitable for ELISA, Western, IHC as -ve control |

Histamine was coupled to BSA to prepare the conjugate (**#HIST12-N-100**). It is supplied in PBS, pH 7.4 at 1 mg/ml in liquid or powder form. Reconstitute powder in water and store at -20°C in small aliquots. It can be used as a positive control in ELISA or dot blot (1-10 ug/ml) or used for antibody blocking (use 1-10 ug/1 ug of antibody).

**Form & Storage of Antibodies/Peptide Control**

**Antiserum (unpurified)**  
100ul solution lyophilized powder  
Supplied 0.05% azide, **Reconstitute** powder in 100 ul PBS

**Affinity pure IgG**  
100 ug/100ul solution lyophilized powder  
Supplied in **Buffer:** PBS+0.1% BSA  
**Reconstitute powder** 100 ul PBS

**Storage**

**Short-term:** unopened, undiluted liquid vials at -20°C and powder at 4°C or -20°C..

**Long-term:** at -20°C or below in suitable aliquots after reconstitution. Do not freeze and thaw and store working, diluted solutions.

**Stability:** 6-12 months at -20°C or below.

**Shipping:** 4°C for solutions and room temp for powder

**Recommended Usage**

**ELISA** (1:5K-1:20K; using 50-100 ng of control antigen/well).

**Histochemistry & Immunofluorescence:** We recommend the use of affinity purified antibody at 2-20 ug/ml using paraffin embedded tissue section of 4% paraformaldehyde/4%carbodiimide-fixed rat stomach (endocrine or mast cells).

**Specificity & Cross-reactivity**

The anti-histamine specifically reacts with histamine-positive cells in gastric mucosa. Histamine-BSA can be used as a positive control in a dot-blot assay to confirm antibody activity. Weak crossreactivity is observed with L-histidine (L-His), and 1-methyl-histidine (1-me-His) conjugated to BSA. No crossreaction is observed with imidazole acetic acid, serotonin, and L-glutamate BSA-conjugates.

**General References:**

Nissinen M et al (1995) J. Histochem. Cytoche. 43, 211;  
Inagaki N et al (1990) Brain Res. 80, 374; Hill S et al (1990) Pharmacol. Rev. 42, 45.

\*This product is for *in vitro* research use only.

**Related material available from ADI:**

Antibodies against various neurotransmitters (GABA, glutamate, serotonin) and Transporter;

**Western Blot recycling kit**

(Use the same blot to probe with multiple antibodies, etc) **recycle blot at room temp in 5-10 min;** No mercaptoethanol or heating required).

HIST12-A-N-100 80603A

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