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Product datasheet for AP01216PU-M

HRH3 Rabbit Polyclonal Antibody

Product data:

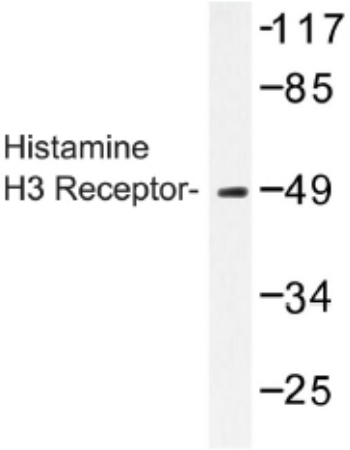
Product Type:	Primary Antibodies
Applications:	IF, WB
Recommended Dilution:	**Western Blot**: 1/500-1/1000. **Immunofluorescence**: 1/50-1/200.
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	Synthetic peptide, corresponding to amino acids 300-350 of Human Histamine H3 Receptor.
Specificity:	This antibody detects endogenous levels of Histamine H3 Receptor (HRH3) protein. (region surrounding Pro326)
Formulation:	Phosphate buffered saline (PBS), pH~7.2 State: Aff - Purified State: Liquid purified Ig fraction (> 95% pure by SDS-PAGE). Preservative: 15 mM Sodium Azide
Concentration:	1.0 mg/ml
Purification:	Affinity Chromatography using epitope-specific immunogen.
Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: One year from despatch.
Predicted Protein Size:	~ 48 kDa
Gene Name:	histamine receptor H3
Database Link:	Entrez Gene 11255 Human Q9Y5N1

View online »

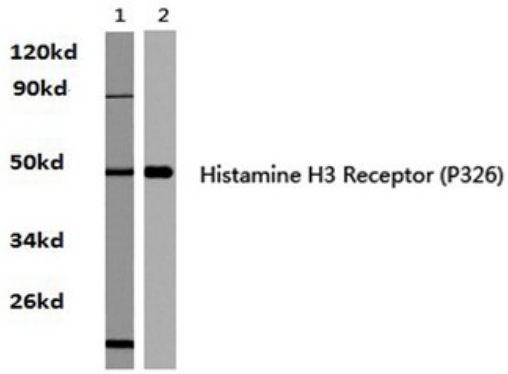
Background: Histamine is an inflammatory mediator that is ubiquitously expressed and has a broad range of pharmacologic effects. Specifically, it plays a role in the central nervous, gastrointestinal, respiratory and immune systems. The effects of histamine are mediated by a family of G protein-coupled receptors,the Histamine H1, H2, H3 and H4 Receptors. The gene encoding the human Histamine H3 Receptor is located on chromosome 20 and is expressed as six alternative splice variants in thalamus. These isoforms contain either a deletion in the second transmembrane domain or a variable deletion in the third intracellular loop. The existence of multiple H3 Receptor isoforms suggests that H3-mediated effects may be regulated through alternative splicing mechanisms.The H3 Receptor acts as an autoreceptor in the central nervous system (CNS) and modulates histamine synthesis and release. It also acts as a heteroreceptor in the CNS and cardiovascular, gastrointestinal and respiratory systems to regulate the release of a variety of neurotransmitters. The Histamine H3 Receptor responds to several agonists and antagonists, which make it a potential therapeutic target for several diseases, such as asthma, epilepsy and cardiac ischemia.

Synonyms: HH3R, GPCR97, G-protein coupled receptor 97

Product images:



Western blot (WB) analysis of Histamine H3 Receptor antibody in extracts from COLO205 cells.



Lane 1: Raw264.7 whole cell lysate
Lane 2: Hela whole cell lysate
Histamine H3 Receptor(P326) pAb at 1:500 dilution

Western blot (WB) analysis of Histamine H3 Receptor Antibody in extracts from hela and raw264.7 cells.