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Histamine H4 Receptor Polyclonal Antibody

Catalog # AP70326

Product Information

Application	WB, IF, ICC, E
Primary Accession	Q9H3N8
Reactivity	Human, Rat, Mouse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	44496

Additional Information

Gene ID	59340
Other Names	HRH4; GPCR105; Histamine H4 receptor; H4R; HH4R; AXOR35; G-protein coupled receptor 105; GPRv53; Pfi-013; SP9144
Dilution	WB~~Western Blot: 1/500 - 1/2000. Immunofluorescence: 1/200 - 1/1000. ELISA: 1/5000. Not yet tested in other applications. IF~~1:50~200 ICC~~N/A E~~N/A
Format	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium azide.
Storage Conditions	-20℃

Protein Information

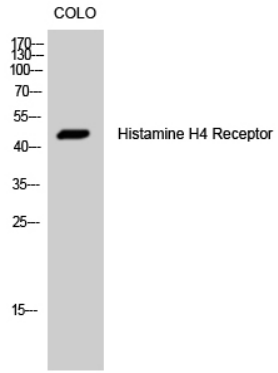
Name	HRH4
Synonyms	GPCR105
Function	G protein-coupled receptor primarily expressed in immune cells such as mast cells, eosinophils, basophils, dendritic cells and neutrophils that plays a key role in immune and inflammatory responses (PubMed:26948974). Mediates chemotaxis of immune cells to sites of inflammation or injury by responding to histamine (PubMed:26948974). Activation by histamine also influences the release of proinflammatory cytokines such as TNF, CCL4, IL6 and IFN-gamma (PubMed:29600327, PubMed:31583075). Ligand binding induces a conformation change that triggers signaling via G(i)/GNAI1 leading to decreased intracellular cAMP levels by inhibiting adenylate cyclase activity (PubMed:39333117). In addition, plays a role in the control of renal reabsorption processes, particularly albumin uptake (By similarity).
Cellular Location	Cell membrane; Multi-pass membrane protein

Tissue Location	Expressed primarily in the bone marrow and eosinophils. Shows preferential distribution in cells of immunological relevance such as T-cells, dendritic cells, monocytes, mast cells, neutrophils and basophils (PubMed:12503632, PubMed:26948974, PubMed:29600327). Also expressed in a wide variety of peripheral tissues, including the heart, kidney, liver, lung, pancreas, skeletal muscle, prostate, small intestine, spleen, testis, colon, fetal liver and lymph node.

Background

The H4 subclass of histamine receptors could mediate the histamine signals in peripheral tissues. Displays a significant level of constitutive activity (spontaneous activity in the absence of agonist).

Images



Western Blot analysis of COLO cells using Histamine H4 Receptor Polyclonal Antibody

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