

Histamine H1 Receptor Polyclonal Antibody

Catalog No :	YT2140
Reactivity :	Human;Rat;Mouse;
Applications :	WB;IF;ELISA
Target :	Histamine H1 Receptor
Fields :	>>Calcium signaling pathway;>>Neuroactive ligand-receptor interaction;>>Inflammatory mediator regulation of TRP channels
Gene Name :	HRH1
Protein Name :	Histamine H1 receptor
Human Gene Id :	3269
Human Swiss Prot No :	P35367
Mouse Swiss Prot No :	P70174
Immunogen :	The antiserum was produced against synthesized peptide derived from human HRH1. AA range:141-190
Specificity :	Histamine H1 Receptor Polyclonal Antibody detects endogenous levels of Histamine H1 Receptor protein.
Formulation :	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source :	Polyclonal, Rabbit,IgG
Dilution :	WB 1:500 - 1:2000. IF 1:200 - 1:1000. ELISA: 1:10000. Not yet tested in other applications.
Purification :	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Concentration :	1 mg/ml

Storage Stability : -15°C to -25°C/1 year(Do not lower than -25°C)

Observed Band : 60kD

Cell Pathway : Calcium;Neuroactive ligand-receptor interaction;

Background : Histamine is a ubiquitous messenger molecule released from mast cells, enterochromaffin-like cells, and neurons. Its various actions are mediated by histamine receptors H1, H2, H3 and H4. The protein encoded by this gene is an integral membrane protein and belongs to the G protein-coupled receptor superfamily. It mediates the contraction of smooth muscles, the increase in capillary permeability due to contraction of terminal venules, the release of catecholamine from adrenal medulla, and neurotransmission in the central nervous system. It has been associated with multiple processes, including memory and learning, circadian rhythm, and thermoregulation. It is also known to contribute to the pathophysiology of allergic diseases such as atopic dermatitis, asthma, anaphylaxis and allergic rhinitis. Multiple alternatively spliced variants, encoding the same protein, have been identified. [provided by Ref

Function : function:In peripheral tissues, the H1 subclass of histamine receptors mediates the contraction of smooth muscles, increase in capillary permeability due to contraction of terminal venules, and catecholamine release from adrenal medulla, as well as mediating neurotransmission in the central nervous system.,PTM:Potential sites of phosphorylation in the third cytoplasmic loop may play an important role in regulating signal transduction through the receptor molecule.,similarity:Belongs to the G-protein coupled receptor 1 family.,

Subcellular Location : Cell membrane ; Multi-pass membrane protein .

Expression : Lens epithelium,Lung,

Tag : hot

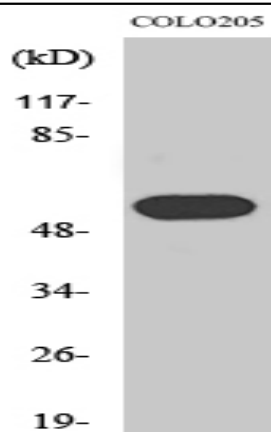
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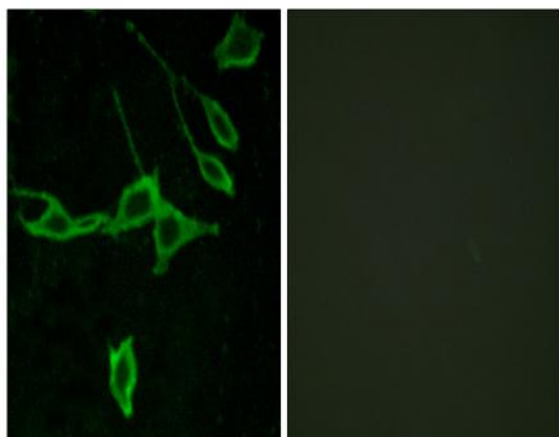
Host : Rabbit

Modifications : Unmodified

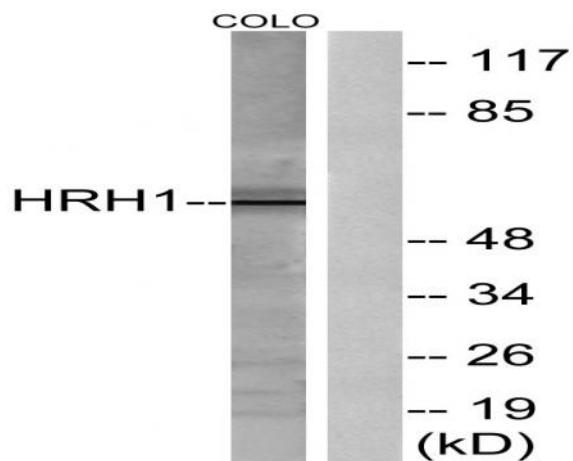
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Western Blot analysis of various cells using Histamine H1 Receptor Polyclonal Antibody diluted at 1:2000



Immunofluorescence analysis of LOVO cells, using HRH1 Antibody. The picture on the right is blocked with the synthesized peptide.



Western blot analysis of lysates from COLO205 cells, using HRH1 Antibody. The lane on the right is blocked with the synthesized peptide.