

HRH4 Polyclonal Antibody

Catalog NumberPA5-33850

Product data sheet

Details		Species Reactivity	
Size	50 µg	Species reactivity	Human, Non-human primate
Host/Isotope	Rabbit / IgG	Tested Applications	Dilution *
Class	Polyclonal		
Type	Antibody		
Immunogen	Synthetic 18 amino acid peptide from 1st cytoplasmic domain of human HRH4 / Histamine H4 Receptor.	Immunohistochemistry (Paraffin) (IHC (P))	20 µg/mL
Conjugate	Unconjugated	Immunocytochemistry (ICC/IF)	Assay-dependent
Form	Liquid	* Suggested working dilutions are given as a guide only. It is recommended that the user titrate the product for use in their own experiment using appropriate negative and positive controls.	
Concentration	1 mg/mL		
Purification	Antigen affinity chromatography		
Storage buffer	PBS		
Contains	0.1% sodium azide		
Storage Conditions	Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.		

Product specific information

Percent identity with other species by BLAST analysis: Human, Monkey, Marmoset (100%) Bovine, Horse, Rabbit (94%) Gibbon, Mouse, Panda, Dog (89%).

Background/Target Information

The Histamine H4 receptor has been reported in human blood peripheral leukocytes, bone marrow, colon, liver, lung, small intestine, spleen, testis, thymus, tonsil, and trachea. Contrary to the mouse H4 receptor, the human gene was not detected in brain. G-protein Coupled Receptors (GPCRs) comprise one of the largest families of signaling molecules with more than a thousand members currently predicted to exist. All GPCRs share a structural motif consisting of seven membrane-spanning helices, and exist in both active and inactive forms. An array of activating ligands participate in the conformation of GPCRs which leads to signaling via G-proteins and downstream effectors. Ongoing studies have also shown the vast series of reactions which participate in the negative regulation of GPCRs. This "turn-off" activity has tremendous implications for the physiological action of the cell, and continues to drive pharmacological research for new drug candidates. Two blockbuster drugs which have been developed as GPCR-targeted pharmaceuticals are Zyprexa (Eli Lilly) and Claritin (Schering-Plough) which have multi-billion dollar shares of the mental health and allergy markets, respectively.

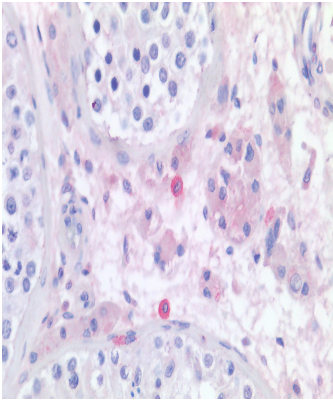
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Product Images For HRH4 Polyclonal Antibody



**HRH4 Antibody (PA5-33850) in IHC (P)**  
Immunohistochemistry analysis of HRH4 in Human Testis, Mast Cells. Samples were incubated with HRH4 polyclonal antibody (Product # PA5-33850). formalin-fixed paraffin-embedded .

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