

Product Data Sheet

Histamine H1 Receptor Antibody

Tested Species Reactivity

Human (Hu)

Tested Applications

Immunohistochemistry (Paraffin)
(IHC (P))

Dilution *

1:100-1:200

* Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own experiment using appropriate negative and positive controls.

Details

Catalog Number:	OPA1-15039
Size:	25 µg
Class:	Polyclonal
Type:	Antibody
Clone:	
Host / Isotype:	Rabbit / IgG
Immunogen:	Synthetic peptide (KLH conjugated) corresponding to the 2nd extracellular domain.

Form Information

Form:	Liquid
Concentration:	1mg/ml
Purification:	Antigen affinity chromatography
Storage Buffer:	PBS, pH 7.7
Preservative:	0.01% 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

OPA1-15039 detects the histamine H1 receptor from human samples.

OPA1-15039 has been successfully used in immunohistochemistry procedures. By immunohistochemistry, OPA1-15039 detects the histamine H1 receptor in formalin fixed, paraffin embedded human tissues.

The OPA1-15039 immunogen is a synthetic peptide (KLH conjugated) corresponding to the 2nd extracellular domain.

Store at 4°C short term. For extended storage, aliquot and store at -20°C or below. Avoid freeze/thaw cycles.

General Information

The histamine H1 receptor has been reported to be expressed in brain, kidney, lung, nasal cavity, placenta, skeletal and smooth muscle, synovium, and vessel. ESTs have been isolated from B-cell/lung/testis, brain, heart, liver/spleen, and lung libraries

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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