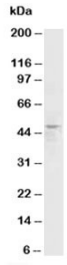
HRH3 Antibody / Histamine Receptor H3 (R30304)

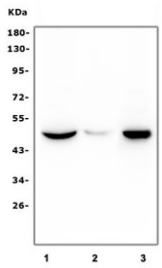
Catalog No.	Formulation	Size
R30304	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity
Buffer	Lyophilized from 1X PBS with 2.5% BSA and 0.025% sodium azide/thimerosal
UniProt	Q9Y5N1
Applications	Western blot: 0.5-1ug/ml
Limitations	This HRH3 antibody is available for research use only.



Western blot testing of HRH3 antibody and rat brain tissue lysate. Predicted molecular weight: ~49 kDa.



Western blot testing of huma 1) U-87 MG, 2) human SHG-44 and 3) mouse RAW264.7 cell lysate with HRH3 antibody. Predicted molecular weight: ~49 kDa.

Description

The histamine receptor H3 (HRH3) is a presynaptic auto-receptor on histamine neurons in the brain and a presynaptic heteroreceptor in non-histamine-containing neurons in both the central and peripheral nervous systems. The deduced 445-amino acid HRH3 protein contains 7 predicted transmembrane domains. And it shares 22% and 21.4% amino acid sequence homology with the H1 (HRH1) and H2 (HRH2) receptors, respectively. The expression of recombinant HRH3 in a variety of cell lines conferred an ability to inhibit adenylate cyclase in response to histamine, but not to acetylcholine or any other biogenic amine. Additionally, HRH3 was most notably observed throughout the thalamus, the ventromedial hypothalamus, and the caudate nucleus. Strong expression was also seen in layers II, V, and VIb of the cerebral cortex, in the pyramidal layers of the hippocampus, and in olfactory tubercle.

Application Notes

The stated application concentrations are suggested starting amounts. Titration of the HRH3 antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

An amino acid sequence from the C-terminus of human HRH3 (CPQKLKIQPHSSLEHCWK) was used as the immunogen for this HRH3 antibody.

Storage

After reconstitution, the HRH3 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.

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