



Anti-HRH3 Antibody

Alternative Names: HH3R, G-protein coupled receptor 97, GPCR97, H3R, Histamine H3 receptor

Catalogue Number: AB21-10137-50ug

Size: 50ug

Background Information

Histamine is an important messenger molecule and neuromodulator with four known G protein-coupled receptors (GPCRs), H1, H2, H3 and H4. Histamine receptor H3 (HRH3) is a presynaptic autoreceptor that regulates histamine release from histaminergic neurons via negative feedback [1] as well as a heteroreceptor that regulates the release of other neurotransmitters [2,3,4]. It is also expressed postsynaptically in the modulation of dopamine signalling.

HRH3 is expressed predominantly in the cortex, thalamus, hypothalamus, hippocampus, amygdala and basal ganglia. Dysregulated central histaminergic signalling has been associated with a number of psychiatric disorders including sleep disorders, ADHD, Alzheimer's disease, Parkinson's disease and schizophrenia.

Product Information

Antibody Type:	Polyclonal Antibody	Host:	Rabbit
Isotype:	IgG	Species Reactivity:	Human, Mouse, Rat
Immunogen:	A synthetic peptide from the C-terminal region of human HRH3		
Format:	50 µg in 50 µl Buffer: PBS with 0.03% Proclin300, 50% glycerol, pH7.3.		
Storage Conditions:	Store at -20°C. Avoid freeze / thaw cycles.		
Applications:	WB 1:2000-5000. IHC 1:10-100.		

Additional Information

Subcellular location:	Plasma Membrane	MW:	49kDa (Intended as a general guide and does not allow for all isoforms and species variations)
Gene ID	11255	Uniprot ID:	Q9Y5N1

References

- [1] Morisset S, Rouleau A, Ligneau X, Gbahou F, Tardivel-Lacombe J, Stark H, Schunack W, Ganellin CR, Schwartz JC, Arrang JM. High constitutive activity of native H3 receptors regulates histamine neurons in brain. *Nature*. 2000; 408:860-4.
- [2] Schlicker E, Betz R, Gothert M. Histamine H3 receptor-mediated inhibition of serotonin release in the rat brain cortex. *Naunyn Schmiedebergs Arch Pharmacol*. 1988; 337:588-90.
- [3] Schlicker E, Fink K, Hinterthaler M, Gothert M. Inhibition of noradrenaline release in the rat brain cortex via presynaptic H3 receptors. *Naunyn Schmiedebergs Arch Pharmacol*. 1989; 340:633-8.
- [4] Schlicker E, Fink K, Detzner M, Gothert M. Histamine inhibits dopamine release in the mouse striatum via presynaptic H3 receptors. *J Neural Transm Gen Sect*. 1993; 93:1-10.

Images

