datasheet NS Reagents

Anti-HRH3 Antibody

Alternative Names:	HH3R, G-protein coupled receptor 97, GPCR97, H3R, Histamine H3 receptor
Catalogue Number:	AB21-10137-100ug
Size:	100ug

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 Polyclonal Antibody Antibody Type: Host: Rabbit lgG **Species Reactivity:** Human, Mouse, Rat Isotype: Immunogen: A synthetic peptide from the C-terminal region of human HRH3 Format: 100 µg in 100 µl Buffer: PBS with 0.03% Proclin300, 50% glycerol, pH7.3. Store at -20°C. Avoid freeze / thaw cycles. **Storage Conditions:** WB 1:2000-5000. IHC 1:10-100. **Applications**: Additional Information Subcellular location: Plasma Membrane 49kDa MW: (Intended as a general guide and does not allow for all isoforms and species variations) 11255 **Uniprot ID:** Q9Y5N1 **Gene ID**

tel: +44 (0)1638 551500 | fax: +44 (0)1638 590481 | tech@nktscientific.com | newmarketscientific.com 9-10 Rosemary House Lanwades Business Park Kennet Newmarket CB8 7PN UK Co Reg No: 06805443 VAT Reg No: 948 4756 68

References

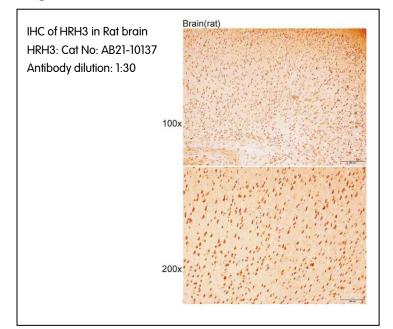
[1] Morisset S, Rouleau A, Ligneau X, Gbahou F, Tardivel-Lacombe J, Stark H, Schunack W, Ganellin CR, Schwartz JC, Arrang JM. High constitutive activity of native H3 receptors regulates histamine neurons in brain. Nature. 2000; 408:860-4.

[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, Hinterthaner 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



tel: +44 (0)1638 551500 | fax: +44 (0)1638 590481 | tech@nktscientific.com | newmarketscientific.com 9-10 Rosemary House Lanwades Business Park Kennet Newmarket CB8 7PN UK Co Reg No: 06805443 VAT Reg No: 948 4756 68