

HRH3 Antibody (Center) Blocking Peptide

Synthetic peptide
Catalog # BP1700c

Specification

HRH3 Antibody (Center) Blocking Peptide - Product Information

Primary Accession [Q9Y5N1](#)

HRH3 Antibody (Center) Blocking Peptide - Additional Information

Gene ID 11255

Other Names

Histamine H3 receptor, H3R, HH3R, G-protein coupled receptor 97, HRH3, GPCR97

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

HRH3 Antibody (Center) Blocking Peptide - Protein Information

Name HRH3

Synonyms GPCR97

Function

The H3 subclass of histamine receptors could mediate the histamine signals in CNS and peripheral nervous system. Signals through the inhibition of adenylate cyclase and displays high constitutive activity (spontaneous activity in the absence of agonist). Agonist stimulation of isoform 3 neither modified adenylate cyclase activity nor induced intracellular calcium mobilization.

Cellular Location

Cell membrane; Multi-pass membrane protein.

Tissue Location

Expressed predominantly in the CNS, with the greatest expression in the thalamus and caudate nucleus. The various isoforms are mainly coexpressed in brain, but their relative expression level varies in a region-specific manner. Isoform 3 and isoform 7 are highly expressed in the thalamus, caudate nucleus and cerebellum while isoform 5 and isoform 6 show a poor expression. Isoform 5 and isoform 6 show a high expression in the amygdala, substantia nigra, cerebral cortex and hypothalamus. Isoform 7 is not found in hypothalamus or substantia nigra

HRH3 Antibody (Center) Blocking Peptide - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Blocking Peptides](#)

HRH3 Antibody (Center) Blocking Peptide - Images

HRH3 Antibody (Center) Blocking Peptide - Background

HRH3 is a ubiquitous messenger molecule released from mast cells, enterochromaffin-like cells, and neurons. Its various actions are mediated by histamine receptors H1, H2, H3 and H4. This gene encodes one of the histamine receptors (H3) which belongs to the family 1 of G protein-coupled receptors. It is an integral membrane protein and can regulate neurotransmitter release. This receptor can also increase voltage-dependent calcium current in smooth muscles and innervates the blood vessels and the heart in cardiovascular system.

HRH3 Antibody (Center) Blocking Peptide - References

Ferreira, M.A., et al. Allergy 64(11):1623-1628(2009)Francis, H., et al. Mol. Cancer Res. 7(10):1704-1713(2009)Jin, C.Y., et al. Br. J. Pharmacol. 157(1):118-129(2009)