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diagnostic or therapeutic use.**

EB06905 - Goat Anti-Histamine Receptor H2 Antibody

Size: 100µg specific antibody in 200µl



Target Protein

Principal Names: HRH2, histamine receptor H2, HGNC:5183, H2R, gastric receptor 1, OTTHUMP00000161242

Official Symbol: HRH2

Accession Number(s): NP_071640.1; NP_001124527.1

Human GeneID(s): [3274](#)

Important Comments: This antibody is expected to recognise both reported isoforms.

Immunogen

Peptide with sequence C-QEEKPLKLQVWSGTE, from the C Terminus of the protein sequence according to NP_071640.1; NP_001124527.1.

Please note the [peptide](#) is available for sale.

Purification and Storage

Purified from goat serum by ammonium sulphate precipitation followed by antigen affinity chromatography using the immunizing peptide.

Supplied at 0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin.

Aliquot and store at -20°C. Minimize freezing and thawing.

Applications Tested

Peptide ELISA: antibody detection limit dilution 1:128000.

Western blot: Preliminary experiments gave bands at approx 55kDa and a stronger 28kDa in Human Colon and Duodenum lysates after 0.1µg/ml antibody staining. Please note that currently we cannot find an explanation in the literature for the bands we observe given the calculated size of 40.1kDa according to NP_071640.1. Both detected bands were successfully blocked by incubation with the immunizing peptide (and BLAST results with the immunizing peptide sequence did not identify any other proteins to explain the additional bands).

IHC: Immunofluorescence: This antibody was successfully used on coronal rat brain slices as reported in Peng et al, Neurosci Lett. 2013 Apr 29;541:87-92. PMID:23466693.

Species Reactivity

Tested: Rat

Expected from sequence similarity: Human, Mouse, Rat, Dog

Specific References

This antibody has been successfully used in IF on Rat:

Bin Li, Xiao-Yang Zhang, Ai-Hong Yang, Xiao-Chun Peng, Zhang-Peng Chen, Jia-Yuan Zhou, Ying-Shing Chan, Jian-Jun Wang and Jing-Ning Zhu.

Histamine Increases Neuronal Excitability and Sensitivity of the Lateral Vestibular Nucleus and Promotes Motor Behaviors via HCN Channel Coupled to H2 Receptor.

Front Cell Neurosci. 2017 Jan 10;10:300.

PMID: 28119568

This antibody has been successfully used in IF on Rat:

Zhang J, Zhuang QX, Li B, Wu GY, Yung WH, Zhu JN, Wang JJ.

Selective Modulation of Histaminergic Inputs on Projection Neurons of Cerebellum Rapidly Promotes Motor Coordination via HCN Channels.

Mol Neurobiol. 2016 Mar;53(2):1386-401.

PMID: 25633097

This antibody has been successfully used in IF on Rat:

Zhang XY, Yu L, Zhuang QX, Peng SY, Zhu JN, Wang JJ.

Postsynaptic mechanisms underlying the excitatory action of histamine on medial vestibular nucleus neurons in rats.

Br J Pharmacol. 2013 Sep;170(1):156-69.

PMID: 23713466

This antibody has been successfully used in IF on Rat:

Peng SY, Zhuang QX, He YC, Zhu JN, Wang JJ.

Histamine excites neurons of the inferior vestibular nucleus in rats by activation of H1 and H2 receptors.

Neurosci Lett. 2013 Apr 29;541:87-92.

PMID: 23466693