Histamine H4 Receptor (H-110): sc-50312



The Power to Overtion

BACKGROUND

Histamine is an inflammatory mediator that is ubiquitously expressed and has a broad range of pharmacologic effects. Specifically, it plays a role in the central nervous, gastrointestinal, respiratory and immune systems. The effects of histamine are mediated by a family of G protein-coupled receptors, the Histamine H1, H2, H3 and H4 Receptors. The gene encoding the human Histamine H1 Receptor maps to chromosome 3p25 and is expressed in highest abundance in placenta, with lower levels in lung, skeletal muscle, kidney and brain. The murine Histamine H2 Receptor gene maps to chromosome 13 and is highly expressed in stomach with moderate expression in brain and heart. The gene encoding the human Histamine H3 Receptor is located on chromosome 20 and is expressed as six alternative splice variants in thalamus. The human Histamine H4 Receptor gene maps to chromosome 18q11.2 and is expressed most abundantly in bone marrow and spleen in addition to peripheral blood leukocytes, thymus, small intestine and colon. The Histamine Receptors respond to several agonists and antagonists, which make them potential therapeutic targets for several diseases, such as asthma, epilepsy and cardiac ischemia.

REFERENCES

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- Coge, F., et al. 2001. Genomic organization and characterization of splice variants of the human Histamine H3 Receptor. Biochem. J. 355: 279-288.
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CHROMOSOMAL LOCATION

Genetic locus: HRH4 (human) mapping to 18q11.2.

SOURCE

Histamine H4 Receptor (H-110) is a rabbit polyclonal antibody raised against amino acids 194-303 mapping within a cytoplasmic domain of Histamine H4 Receptor of human origin.

PRODUCT

Each vial contains 200 μg lgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

APPLICATIONS

Histamine H4 Receptor (H-110) is recommended for detection of Histamine H4 Receptor of human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 μ g per 100-500 μ g of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500), dilution range 1:50-1:500), immunohistochemistry (including paraffin-embedded sections) (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for Histamine H4 Receptor siRNA (h): sc-40025, Histamine H4 Receptor shRNA Plasmid (h): sc-40025-SH and Histamine H4 Receptor shRNA (h) Lentiviral Particles: sc-40025-V.

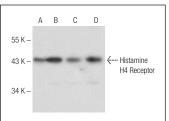
Molecular Weight of Histamine H4 Receptor isoforms: 44/85 kDa.

Positive Controls: AN3 CA cell lysate: sc-24662, Raji whole cell lysate: sc-364236 or HEL 92.1.7 cell lysate: sc-2270.

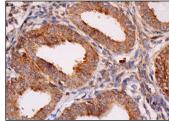
RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit lgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible goat anti-rabbit lgG-HRP: sc-2030 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use goat anti-rabbit lgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit lgG-TR: sc-2780 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941. 4) Immunohistochemistry: use ImmunoCruz™: sc-2051 or ABC: sc-2018 rabbit lgG Staining Systems.

DATA



Histamine H4 Receptor (H-110): sc-50312. Western blot analysis of Histamine H4 Receptor in human plasma (A) and Histamine H4 Receptor expression in AN3 CA (B), Raji (C) and HEL 92.1.7 (D) whole cell lysates.



Histamine H4 Receptor (H-110): sc-50312. Immuno peroxidase staining of formalin fixed, paraffinembedded human uterus wall tissue showing cytoplasmic staining of glandular cells.

STORAGE

Store at 4° C, **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

RESEARCH USE

For research use only, not for use in diagnostic procedures.