GHRH (H-20): sc-10285



The Power to Question

BACKGROUND

Growth hormone-releasing hormone (GHRH), also designated somatoliberin or GRF, is a member of the GRF superfamily of structurally related peptide hormones. Members of the GRF superfamily have amphiphilic α -helical secondary structures as their preferred bioactive conformations. GHRH exerts its action through high-affinity GHRH receptors (GHRH-R) present in the anterior pituitary. GHRH also functions as an autocrine/paracrine growth factor for small cell lung carcinoma. GHRH stimulates secretion and synthesis of growth hormone, causes somatotroph proliferation, and may have direct actions in fetal/placental development, reproduction and immune function. The GRF superfamily includes vasoactive intestinal peptide, pituitary adenylate cyclase-activating polypeptide, secretin and glucagon. The gene encoding GHRH maps to human chromosome 20q11.2.

REFERENCES

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- Mayo, K.E. 1992. Molecular cloning and expression of a pituitary-specific receptor for growth hormone-releasing hormone. Mol. Endocrinol. 6: 1734-1744.
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- Perez Jurado, L.A., et al. 1994. Genetic mapping of the human growth hormone-releasing factor gene (GHRF) using two intragenic polymorphisms detected by PCR amplification. Genomics 20: 132-134.
- Kiaris, H., et al. 1999. Growth hormone-releasing hormone: an autocrine growth factor for small cell lung carcinoma. Proc. Natl. Acad. Sci. USA 96: 14894-14898.
- Petersenn, S., et al. 2000. Structure and function of the growth-hormonereleasing hormone receptor. Vitam. Horm. 59: 35-69.

CHROMOSOMAL LOCATION

Genetic locus: Ghrh (mouse) mapping to 2 H1.

SOURCE

GHRH (H-20) is an affinity purified goat polyclonal antibody raised against a peptide mapping at the N-terminus of GHRH of mouse origin.

PRODUCT

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

Blocking peptide available for competition studies, sc-10285 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

STORAGE

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

APPLICATIONS

GHRH (H-20) is recommended for detection of precursor and mature GHRH of mouse origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunofluorescence (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 GHRH siRNA (m): sc-39520, GHRH shRNA Plasmid (m): sc-39520-SH and GHRH shRNA (m) Lentiviral Particles: sc-39520-V.

Molecular Weight of GHRH: 12 kDa.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible donkey anti-goat IgG-HRP: sc-2033 (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) Immunofluorescence: use donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

RESEARCH USE

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

PROTOCOLS

See our web site at www.scbt.com or our catalog for detailed protocols and support products.

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