

PRLH (E-12): sc-169032

BACKGROUND

PRLH (prolactin releasing hormone), also known as PRH or PRRP (prolactin-releasing peptide), is an 87 amino acid secreted protein that is cleaved into two chains, namely prolactin-releasing peptide PrRP31 and prolactin-releasing peptide PrRP20. Localizing to medulla oblongata and hypothalamus, PRLH is expressed in human pituitary. PRLH participates in neuropeptide hormone activity and functions as a mediator of stress response. PRLH also participates in prolactin-releasing peptide receptor binding. PRLH stimulates release of prolactin, which is important in pregnancy and lactation in mammals, mammary gland development and milk synthesis promotion. PRLH regulates prolactin expression through its G protein-coupled receptor, GPR10, and may stimulate lactotrophs directly to secrete prolactin. PRLH likely modulates reticular thalamic function and is a target for therapies directed at sleep disorders and absence seizures. The gene that encodes PRLH maps to human chromosome 2q37.3.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: PRLH (human) mapping to 2q37.3; Prlh (mouse) mapping to 1 D.

RESEARCH USE

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

SOURCE

PRLH (E-12) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of PRLH of human origin.

PRODUCT

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

Blocking peptide available for competition studies, sc-169032 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

PRLH (E-12) is recommended for detection of PRLH of mouse, rat and human 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).

PRLH (E-12) is also recommended for detection of PRLH in additional species, including equine, canine and bovine.

Suitable for use as control antibody for PRLH siRNA (h): sc-94933, PRLH siRNA (m): sc-152472, PRLH shRNA Plasmid (h): sc-94933-SH, PRLH shRNA Plasmid (m): sc-152472-SH, PRLH shRNA (h) Lentiviral Particles: sc-94933-V and PRLH shRNA (m) Lentiviral Particles: sc-152472-V.

Molecular Weight of PRLH: 10 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) or donkey anti-goat IgG-TR: sc-2783 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

STORAGE

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

PROTOCOLS

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