



RFRP-2 (E-18): sc-32376

BACKGROUND

The human RFamide-related peptide gene, RFRP (also designated NPVF or C7orf9), is responsible for encoding three small neuropeptides designated RFRP-1 (NPSF), RFRP-2 and RFRP-3 (NPVF). The homologous gene in rodents encodes only two functional neuropeptide: RFRP-1 (NPSF) and RFRP-3 (NPVF). RFamide-related peptides constitute a large family of neuropeptides in a wide range of species that are known to play a role in neurotransmission, neuromodulation, cardioexcitation and control of muscle contraction. Neuropeptides RFRP-1 and RFRP-3 efficiently inhibit Forskolin-induced production of cAMP. RFRP-2, however, does not appear to have a similar inhibitory activity. RFamide-related peptides are secreted and abundantly expressed in retina. RFRP-1 and RFRP-3 are also widely distributed in fetal and adult brain, including the forebrain, hypothalamus, thalamus, midbrain, pons and medulla oblongata. RFRP-1 and the prolactin (PRL)-releasing peptide-31 (PrRP-31) may be involved in the stimulation of stress hormone secretion by either direct pituitary or indirect hypothalamic actions.

REFERENCES

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STORAGE

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

CHROMOSOMAL LOCATION

Genetic locus: RPRF (human) mapping to 7p15.2.

SOURCE

RFRP-2 (E-18) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of RFamide-related peptides precursor protein 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-32376 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

RFRP-2 (E-18) is recommended for detection of RFamide-related peptides precursor protein and RFRP-2 active peptide of 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).

Suitable for use as control antibody for RFRP siRNA (h): sc-44797.

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.

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.