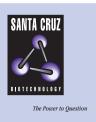
# SANTA CRUZ BIOTECHNOLOGY, INC.

# RFRP-1 (P-19): sc-32379



# 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. Neuro-peptides 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, \*\*D0 NOT FREEZE\*\*. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

#### CHROMOSOMAL LOCATION

Genetic locus: Rfrp (mouse) mapping to 6qB2.3

#### SOURCE

RFRP-1 (P-19) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of RFamide-related peptides precursor protein of mouse origin.

#### PRODUCT

Each vial contains 200  $\mu g$  lgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-32379 P, (100  $\mu$ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

# **APPLICATIONS**

RFRP-1 (P-19) is recommended for detection of RFamide-related peptides precursor protein and RFRP-1 active peptide of mouse and rat 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 (m): sc-44798.

# **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) Immunofluo-rescence: use donkey anti-goat IgG-FITC: sc-2783 (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.