

# Neurensin-1 (F-12): sc-168741

## BACKGROUND

Neurensin-1 (NRSN1), also designated Vesicular membrane protein of 24 kDa (VMP) or Neuro-p24, is a 195 amino acid multi-pass membrane protein belonging to the VMP family that is involved in the transport of neural organelle transport and in the transduction of nerve signals or in nerve growth. Expressed solely in brain, Neurensin-1 is also thought to play a role in neurite extension. The gene encoding Neurensin-2 maps to human chromosome 6, which contains around 1,200 genes within 170 million base pairs of sequence. Deletion of a portion of the q arm of chromosome 6 is associated with early onset intestinal cancer suggesting the presence of a cancer susceptibility locus. Porphyria cutanea tarda, Parkinson's disease, Stickler syndrome, 21-hydroxylase deficiency and maple syrup urine disease are also associated with genes on chromosome 6.

## REFERENCES

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## CHROMOSOMAL LOCATION

Genetic locus: NRSN1 (human) mapping to 6p22.3; Nrsn1 (mouse) mapping to 13 A3.1.

## SOURCE

Neurensin-1 (F-12) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of Neurensin-1 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-168741 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## APPLICATIONS

Neurensin-1 (F-12) is recommended for detection of Neurensin-1 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); non cross-reactive with Neurensin-2.

Neurensin-1 (F-12) is also recommended for detection of Neurensin-1 in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for Neurensin-1 siRNA (h): sc-95247, Neurensin-1 siRNA (m): sc-149926, Neurensin-1 shRNA Plasmid (h): sc-95247-SH, Neurensin-1 shRNA Plasmid (m): sc-149926-SH, Neurensin-1 shRNA (h) Lentiviral Particles: sc-95247-V and Neurensin-1 shRNA (m) Lentiviral Particles: sc-149926-V.

Molecular Weight of Neurensin-1: 24 kDa.

Positive Controls: rat brain extract: sc-2392.

## 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.

## RESEARCH USE

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

## PROTOCOLS

See our web site at [www.scbt.com](http://www.scbt.com) or our catalog for detailed protocols and support products.