

# NMBR (S-15): sc-34377

## BACKGROUND

The bombesin receptor family includes the gastrin-releasing peptide (GRPR) and neuromedin B (NMBR) receptors. Both receptors are expressed in various brain regions and in the digestive tract. NMBR belongs to the G protein coupled receptor 1 family. The gene encoding NMBR protein maps to chromosome 6q24.1. NMBR, an integral membrane protein, binds neuromedin B, a mitogen and growth factor for gastrointestinal epithelial tissue and normal and neoplastic lung.

## REFERENCES

1. Siegfried, J.M., et al. 1999. Evidence for autocrine actions of neuromedin B and gastrin-releasing peptide in non-small cell lung cancer. *Pulm. Pharmacol. Ther.* 12: 291-302.
2. Sun, B., et al. 2000. The presence of receptors for bombesin/GRP and mRNA for three receptor subtypes in human ovarian epithelial cancers. *Regul. Pept.* 90: 77-84.

## CHROMOSOMAL LOCATION

Genetic locus: NMBR (human) mapping to 6q24.1; Nmb (mouse) mapping to 10 A2.

## SOURCE

NMBR (S-15) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an extracellular domain of NMBR 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-34377 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## APPLICATIONS

NMBR (S-15) is recommended for detection of Neuromedin B receptor 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), immunohistochemistry (including paraffin-embedded sections) (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

NMBR (S-15) is also recommended for detection of Neuromedin B receptor in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for NMBR siRNA (h): sc-45362, NMBR siRNA (m): sc-45363, NMBR shRNA Plasmid (h): sc-45362-SH, NMBR shRNA Plasmid (m): sc-45363-SH, NMBR shRNA (h) Lentiviral Particles: sc-45362-V and NMBR shRNA (m) Lentiviral Particles: sc-45363-V.

Molecular Weight of glycosylated NMBR: 47-80 kDa.

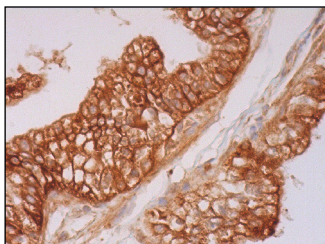
Molecular Weight of deglycosylated NMBR: 43 kDa.

Positive Controls: mouse brain extract: sc-2253.

## 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. 3) Immunohistochemistry: use ImmunoCruz™: sc-2053 or ABC: sc-2023 goat IgG Staining Systems.

## DATA



NMBR (S-15): sc-34377. Immunoperoxidase staining of formalin fixed, paraffin-embedded human epididymis tissue showing membrane and cytoplasmic staining of glandular cells.

## 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.

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Try **NMBR (G-3): sc-374623**, our highly recommended monoclonal alternative to NMBR (S-15).