

NMBR (M-52): sc-98252

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.
3. Shuttleworth, S.J., et al. 2004. Identification and optimization of novel partial agonists of neuromedin B receptor using parallel synthesis. *Bioorg. Med. Chem. Lett.* 14: 3037-3042.
4. Marvanova, M., et al. 2004. Identification of genes regulated by memantine and MK-801 in adult rat brain by cDNA microarray analysis. *Neuropsychopharmacology* 29: 1070-1079.
5. Shan, L., et al. 2004. Bombesin-like peptide receptor gene expression, regulation and function in fetal murine lung. *Am. J. Physiol. Lung Cell Mol. Physiol.* 286: L165-L173.

CHROMOSOMAL LOCATION

Genetic locus: *Nmbr* (mouse) mapping to 10 A2.

SOURCE

NMBR (M-52) is a rabbit polyclonal antibody raised against amino acids 1-52 mapping at the N-terminus of NMBR of mouse origin.

APPLICATIONS

NMBR (M-52) is recommended for detection of Neuromedin B receptor of mouse and rat origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], 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 NMBR siRNA (m): sc-45363, NMBR shRNA Plasmid (m): sc-45363-SH 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 tissue extract.

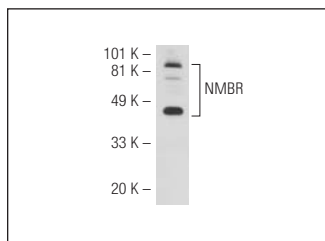
PRODUCT

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

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible goat anti-rabbit IgG-HRP: sc-2030 (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) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

DATA



NMBR (M-52): sc-98252. Western blot analysis of NMBR expression in mouse brain tissue extract.

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 or our catalog for detailed protocols and support products.