

GPNMB (S-24): sc-133634

BACKGROUND

Transmembrane glycoprotein NMB (GPNMB), also designated hematopoietic growth factor inducible neurokinin-1 (HGFIN), is a single-pass type I membrane protein. Belonging to the Pmel-17/NMB family of proteins, GPNMB acts as a melanogenic enzyme. GPNMB expression is not restricted to cells of melanocytic lineage and is highest in poorly metastatic melanoma cell lines. There is no expression of GPNMB in highly metastatic melanoma cell lines. GPNMB may play an important role in lymphohematopoietic stem cell maturation.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: GPNMB (human) mapping to 7p15.3; Gpnmb (mouse) mapping to 6 B2.3.

SOURCE

GPNMB (S-24) is an affinity purified rabbit polyclonal antibody raised against synthetic GPNMB peptide of human origin.

PRODUCT

Each vial contains 50 µg IgG in 0.5 ml of PBS with < 0.1% sodium azide, 0.1% gelatin and < 0.02% sucrose.

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.

APPLICATIONS

GPNMB (S-24) is recommended for detection of GPNMB of mouse and human 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), 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).

Suitable for use as control antibody for GPNMB siRNA (h): sc-60721, GPNMB siRNA (m): sc-60722, GPNMB shRNA Plasmid (h): sc-60721-SH, GPNMB shRNA Plasmid (m): sc-60722-SH, GPNMB shRNA (h) Lentiviral Particles: sc-60721-V and GPNMB shRNA (m) Lentiviral Particles: sc-60722-V.

Molecular Weight of GPNMB: 64 kDa.

Molecular Weight of glycosylated GPNMB: 110-130 kDa.

Positive Controls: Hep G2 cell lysate: sc-2227.

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. 4) Immunohistochemistry: use ImmunoCruz™: sc-2051 or ABC: sc-2018 rabbit IgG Staining Systems.

PROTOCOLS

See our web site at www.scbt.com for detailed protocols and support products.



Try **GPNMB (D-9): sc-271415** or **GPNMB (G-8): sc-271416**, our highly recommended monoclonal alternatives to GPNMB (S-24).