

NMT2 (H-45): sc-67173

BACKGROUND

N-terminal myristoylation is a cotranslational lipid modification, which is crucial for the targeting and function of many signaling proteins. The N-myristoyltransferases (NMT 1 and NMT 2), also known as glycylopeptide N-tetradecan-oyltransferases, are cytoplasmic proteins that belong to the NMT family of proteins. The proteins in this family catalyze the addition of a myristoyl group to the N-terminal glycine residue of eukaryotic, fungal and viral proteins. They are primarily detected in heart, gut, kidney, liver and placenta.

REFERENCES

- McIlhinney, R.A., Patel, P.B. and McGlone, K. 1994. Characterization of a polyhistidine-tagged form of human myristoyl-CoA: protein N-myristoyltransferase produced in *Escherichia coli*. *Eur. J. Biochem.* 222: 137-146.
- Weston, S.A., Camble, R., Colls, J., Rosenbrock, G., Taylor, I., Egerton, M., Tucker, A.D., Tunnicliffe, A., Mistry, A., Mancina, F., de la Fortelle, E., Irwin, J., Bricogne, G. and Paupit, R.A. 1998. Crystal structure of the anti-fungal target N-myristoyl transferase. *Nat. Struct. Biol.* 5: 213-221.

CHROMOSOMAL LOCATION

Genetic locus: NMT2 (human) mapping to 10p13; Nmt2 (mouse) mapping to 2 A1.

SOURCE

NMT2 (H-45) is a rabbit polyclonal antibody raised against amino acids 1-45 mapping at the N-terminus of NMT2 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.

RESEARCH USE

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

APPLICATIONS

NMT2 (H-45) is recommended for detection of NMT2 of mouse, rat 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) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

NMT2 (H-45) is also recommended for detection of NMT2 in additional species, including bovine and avian.

Suitable for use as control antibody for NMT2 siRNA (h): sc-61134, NMT2 siRNA (m): sc-61135, NMT2 shRNA Plasmid (h): sc-61134-SH, NMT2 shRNA Plasmid (m): sc-61135-SH, NMT2 shRNA (h) Lentiviral Particles: sc-61134-V and NMT2 shRNA (m) Lentiviral Particles: sc-61135-V.

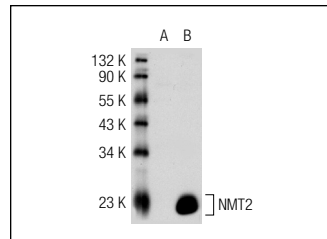
Molecular Weight of NMT2: 60 kDa.

Positive Controls: NMT2 (m): 293T Lysate: sc-127232 or NMT2 (h2): 293T Lysate: sc-172790.

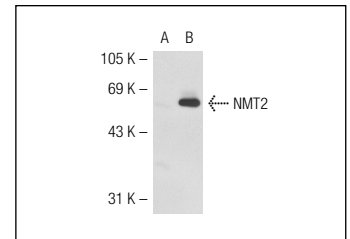
RECOMMENDED SECONDARY REAGENTS

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



NMT2 (H-45): sc-67173. Western blot analysis of NMT2 expression in non-transfected: sc-117752 (A) and mouse NMT2 transfected: sc-127232 (B) 293T whole cell lysates.



NMT2 (H-45): sc-67173. Western blot analysis of NMT2 expression in non-transfected: sc-117752 (A) and human NMT2 transfected: sc-172790 (B) 293T whole cell lysates.

STORAGE

Store at 4° C, **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

PROTOCOLS

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



Try **NMT2 (30): sc-136005**, our highly recommended monoclonal alternative to NMT2 (H-45).