

MLN64 (H-237): sc-292868

BACKGROUND

Sterol transport is mediated by vesicles or by soluble protein carriers, such as steroidogenic acute regulatory protein (StAR). StAR is homologous to a family of proteins containing a 200-210 amino acid StAR-related lipid transfer (StART) domain, including StARD3 (also known as MLN64). Amplification of the gene which encodes MLN64 results in overexpression and coamplification with ErbB-2 in breast cancer cell lines. Immunoblot analysis shows expression in most breast cancer cell lines and tissues, as well as in an ovary carcinoma cell line. Immunofluorescence microscopy and mutation analysis shows cytoplasmic expression in condensation sites and perinuclear condensation in breast cancer biopsies. It is suggested that MLN64 acts on late endosome cholesterol traffic, possibly lowering cholesterol by shuttling it to a cytoplasmic receptor site.

CHROMOSOMAL LOCATION

Genetic locus: STARD3 (human) mapping to 17q12; Stard3 (mouse) mapping to 11 D.

SOURCE

MLN64 (H-237) is a rabbit polyclonal antibody raised against amino acids 209-445 mapping at the C-terminus of MLN64 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.

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

MLN64 (H-237) is recommended for detection of MLN64 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).

MLN64 (H-237) is also recommended for detection of MLN64 in additional species, including equine, canine and bovine.

Suitable for use as control antibody for MLN64 siRNA (h): sc-44439, MLN64 siRNA (m): sc-149470, MLN64 shRNA Plasmid (h): sc-44439-SH, MLN64 shRNA Plasmid (m): sc-149470-SH, MLN64 shRNA (h) Lentiviral Particles: sc-44439-V and MLN64 shRNA (m) Lentiviral Particles: sc-149470-V.

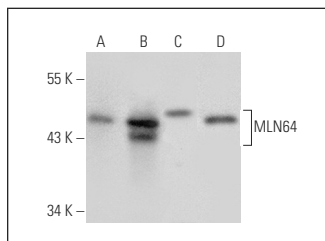
Molecular Weight of MLN64: 50 kDa.

Positive Controls: MLN64 (h): 293T Lysate: sc-114079, A2058 whole cell lysate: sc-364178 or HeLa whole cell lysate: sc-2200.

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



MLN64 (H-237): sc-292868. Western blot analysis of MLN64 expression in non-transfected 293T: sc-117752 (A), human MLN64 transfected 293T: sc-114079 (B), A2058 (C) and HeLa (D) whole cell lysates.

PROTOCOLS

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



Try **MLN64 (H-1): sc-166215** or **MLN64 (G-3): sc-390040**, our highly recommended monoclonal alternatives to MLN64 (H-237).