

Myosin XVIIIa (H-125): sc-99127

BACKGROUND

Myosin XVIIIa, also designated MYO18A, MAJN, MYSPDZ, surfactant protein A receptor (SPR210) or TGF β 1-induced antiapoptotic factor 1, is a TGF β 1-induced antiapoptotic factor known to inhibit the cytotoxic effects of TNF α on mouse fibroblasts. Two isoforms of mouse Myosin XVIIIa, designated MysPDZ α and MysPDZ β , have been identified. MysPDZ α consists of a KE-rich region, an N-terminal PDZ domain and a prevalent myosin homologous head region, neck (with one IQ motif) and coiled-coil tail. The MysPDZ β isoform lacks the KE-rich region and PDZ domain. MysPDZ α is present in most tissues and is known to co-localize with the ER-Golgi complex and with membrane ruffles and filopodia. MysPDZ β is expressed specifically in hematopoietic tissues and cell lines and shows dispersed localization in the cytoplasm.

CHROMOSOMAL LOCATION

Genetic locus: MYO18A (human) mapping to 17q11.2; Myo18a (mouse) mapping to 11 B5.

SOURCE

Myosin XVIIIa (H-125) is a rabbit polyclonal antibody raised against amino acids 1656-1780 mapping within an internal region of Myosin XVIIIa of human origin.

PRODUCT

Each vial contains 200 μ g 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.

APPLICATIONS

Myosin XVIIIa (H-125) is recommended for detection of Myosin XVIIIa isoforms 1-5 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 μ g per 100-500 μ g 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).

Myosin XVIIIa (H-125) is also recommended for detection of Myosin XVIIIa isoforms 1-5 in additional species, including equine, canine and bovine.

Suitable for use as control antibody for Myosin XVIIIa siRNA (h): sc-106272, Myosin XVIIIa siRNA (m): sc-61129, Myosin XVIIIa shRNA Plasmid (h): sc-106272-SH, Myosin XVIIIa shRNA Plasmid (m): sc-61129-SH, Myosin XVIIIa shRNA (h) Lentiviral Particles: sc-106272-V and Myosin XVIIIa shRNA (m) Lentiviral Particles: sc-61129-V.

Molecular Weight of MysPDZ α : 230 kDa.

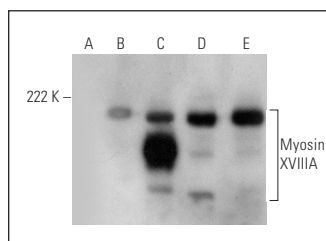
Molecular Weight of MysPDZ β : 190 kDa.

Positive Controls: XVIIIa (h) 293T Lysate: sc-115801, HeLa whole cell lysate: sc-2200 or K-562 whole cell lysate: sc-2203.

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



Myosin XVIIIa (H-125): sc-99127. Western blot analysis of Myosin XVIIIa expression in non-transfected 293T: sc-117752 (A), human Myosin XVIIIa transfected 293T: sc-115801 (B), Jurkat (C), HeLa (D) and K-562 (E) whole cell lysates.

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.

MONOS
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Guaranteed

Try **Myosin XVIIIa (H-10): sc-365328**, our highly recommended monoclonal alternative to Myosin XVIIIa (H-125).