**Myosin XVIIIa (H-10): sc-365328**

**BACKGROUND**

Myosin XVIIIa, also designated MYO18A, MAJN, MYSPDZ, surfactant protein A receptor (SPR210) or TGFβ1-induced antiapoptotic factor 1, is a TGFβ1-induced antiapoptotic factor known to inhibit the cytotoxic effects of TNFα on mouse fibroblasts. Two isoforms of mouse Myosin XVIIIa, designated MysPDZα and MysPDZβ, have been identified. MysPDZα 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 MysPDZβ isoform lacks the KE-rich region and PDZ domain. MysPDZα is present in most tissues and is known to co-localize with the ER-Golgicomplex and with membrane ruffles and filopodia. MysPDZβ is expressed specifically in hematopoietic tissues and cell lines and shows dispersed localization in the cytoplasm.

**REFERENCES**


**CHROMOSOMAL LOCATION**

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

**SOURCE**

Myosin XVIIIa (H-10) is a mouse monoclonal antibody raised against amino acids 1656-1780 mapping within an internal region of Myosin XVIIIa of human origin.

**PRODUCT**

Each vial contains 200 µg IgG1 kappa light chain 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-10) is recommended for detection of Myosin XVIIIa isoforms 1-5 of mouse, rat and human origin by Western Blotting (starting dilution 1:100, 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 Myosin XVIIIa siRNA (h): sc-106272, Myosin XVIIIa siRNA (m): sc-61129, Myosin XVIIIa siRNA (r): sc-270493, Myosin XVIIIa shRNA Plasmid (h): sc-106272-SH, Myosin XVIIIa shRNA Plasmid (m): sc-61129-SH, Myosin XVIIIa shRNA (r) Lentiviral Particles: sc-106272-V, Myosin XVIIIa shRNA (m) Lentiviral Particles: sc-61129-V and Myosin XVIIIa shRNA (r) Lentiviral Particles: sc-270493-V.

Molecular Weight of Myosin XVIIIa isoforms: 230/190 kDa.

Positive Controls: Jurkat whole cell lysate: sc-2204, MOLT-4 cell lysate: sc-2233 or K-562 whole cell lysate: sc-2203.

**RECOMMENDED SUPPORT REAGENTS**

To ensure optimal results, the following support reagents are recommended:

**DATA**

**PROTOCOLS**

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