Myosin XVIIIa (H-10): sc-365328

**BACKGROUND**

Myosin XVIIIa, also designated MYO18A, MAJN, MYSPDZ, surfactant protein A receptor (SPRY2010) and TGFβ1-induced antipapoptotic factor 1, is a TGFβ1-induced antipapoptotic 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 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 XVIIla (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 IgG κ kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Myosin XVIIla (H-10) is available conjugated to agarose (sc-365328 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-365328 HRP), 200 µg/ml, for WB, IHC(κ) and ELISA; to either phycoerythrin (sc-365328 PE), fluorescein (sc-365328 FITC), Alexa Fluor® 488 (sc-365328 AF488), Alexa Fluor® 546 (sc-365328 AF546), Alexa Fluor® 594 (sc-365328 AF594) or Alexa Fluor® 647 (sc-365328 AF647), 200 µg/ml, for WB (RGB), IF, IHC(κ) and FCM; and to either Alexa Fluor® 680 (sc-365328 AF680) or Alexa Fluor® 790 (sc-365328 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

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**APPLICATIONS**

Myosin XVIIla (H-10) is recommended for detection of Myosin XVIIla 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).


Molecular Weight of Myosin XVIIla 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: 1) Western Blotting: use m-IgG κ BP-HRP: sc-516102 or m-IgG κ BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker™ Molecular Weight Standards: sc-2035, UltraCruz™ Blocking Reagent: sc-516214 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 m-IgG κ BP-PE: sc-516140 or m-IgG κ BP-PE: sc-516141 (dilution range: 1:50-1:200) with UltraCruz™ Mounting Medium: sc-24941 or UltraCruz™ Hard-set Mounting Medium: sc-359850.

**DATA**

Myosin XVIIla (H-10): sc-365328. Western blot analysis of Myosin XVIIla expression in Jurkat (A), MOLT-4 (B) and K-562 (C) whole cell lysates.

Myosin XVIIla (H-10): sc-365328. Western blot analysis of Myosin XVIIla expression in Jurkat (A) and K-562 (B) whole cell lysates. Detection reagent used: m-IgG κ BP-HRP: sc-516102.

**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.