

# MAST1 (H-111): sc-292527

## BACKGROUND

Syntrophin is an adapter protein that functions to bind certain signaling molecules to the dystrophin-associated protein complex. This complex connects the extracellular matrix to the intracellular cytoskeleton for construction and maintenance of the postsynaptic structures in the neuromuscular junction and the central nervous system. Microtubule-associated serine/threonine-protein kinase 1 (MAST1) is a member of the microtubule-associated serine/threonine kinase family and is involved in linking the dystrophin/utrophin network with microtubule filaments via Syntrophin.

## REFERENCES

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- De Angelis, P.M., Svendsrud, D.H., Kravik, K.L. and Stokke, T. 2006. Cellular response to 5-fluorouracil (5-FU) in 5-FU-resistant colon cancer cell lines during treatment and recovery. *Mol. Cancer* 5: 20.

## CHROMOSOMAL LOCATION

Genetic locus: MAST1 (human) mapping to 19p13.2; Mast1 (mouse) mapping to 8 C3.

## SOURCE

MAST1 (H-111) is a rabbit polyclonal antibody raised against amino acids 777-887 mapping within an internal region of MAST1 of human origin.

## PRODUCT

Each vial contains 200  $\mu$ 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

MAST1 (H-111) is recommended for detection of MAST1 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2  $\mu$ g per 100-500  $\mu$ 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).

MAST1 (H-111) is also recommended for detection of MAST1 in additional species, including equine, canine and bovine.

Suitable for use as control antibody for MAST1 siRNA (h): sc-106819, MAST1 siRNA (m): sc-149287, MAST1 shRNA Plasmid (h): sc-106819-SH, MAST1 shRNA Plasmid (m): sc-149287-SH, MAST1 shRNA (h) Lentiviral Particles: sc-106819-V and MAST1 shRNA (m) Lentiviral Particles: sc-149287-V.

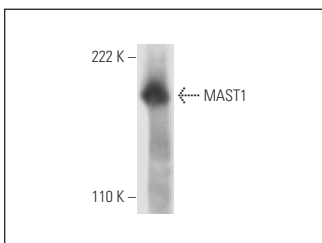
Molecular Weight of MAST1: 171 kDa.

Positive Controls: SH-SY5Y cell lysate: sc-3812.

## 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



MAST1 (H-111): sc-292527. Western blot analysis of MAST1 expression in SH-SY5Y whole cell lysate.

## RESEARCH USE

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

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Try **MAST1 (G-4): sc-373845**, our highly recommended monoclonal alternative to MAST1 (H-111).