

MAST1 (T-20): sc-55851

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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CHROMOSOMAL LOCATION

Genetic locus: MAST1 (human) mapping to 19p13.2.

SOURCE

MAST1 (T-20) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of MAST1 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.

Blocking peptide available for competition studies, sc-55851 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

STORAGE

Store at 4° C, ****DO NOT FREEZE****. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

APPLICATIONS

MAST1 (T-20) is recommended for detection of MAST1 of human and rat 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).

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

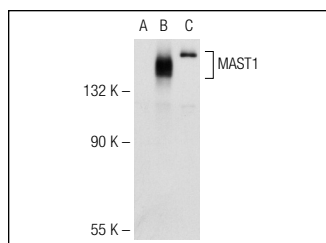
Molecular Weight of MAST1: 171 kDa.

Positive Controls: MAST1 (h): 293T Lysate: sc-114725 or SH-SY5Y cell lysate: sc-3812.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible donkey anti-goat IgG-HRP: sc-2033 (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 donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100-1:400) or donkey anti-goat IgG-TR: sc-2783 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

DATA



MAST1 (T-20): sc-55851. Western blot analysis of MAST1 expression in non-transfected 293T: sc-117752 (A), human MAST1 transfected 293T: sc-114725 (B) and SH-SY5Y (C) whole cell lysates.

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 (T-20).