SANTA CRUZ BIOTECHNOLOGY, INC.

MAMSTR (P-15): sc-167913



BACKGROUND

MAMSTR (MEF2-activating motif and SAP domain-containing transcriptional regulator), also known as MASTR (MEF2-activating SAP transcriptional regulatory protein), is a 415 amino acid nuclear protein that functions as a transcriptional coactivator by stimulating MEF-2. Containing one SAP domain,

MAMSTR is expressed in spleen, placenta, skeletal muscle and brain, and exists as three alternatively spliced isoforms. The gene encoding MAMSTR maps to human chromosome 19, which consists of over 63 million bases, houses approximately 1,400 genes and is recognized for having the greatest

gene density of the human chromosomes. It is the genetic home for a number of immunoglobulin (Ig) superfamily members, including the killer cell and leukocyte Ig-like receptors, a number of ICAMs, the CEACAM and PSG family and Fc receptors (FcRs).

REFERENCES

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- Trowsdale, J., et al. 2001. The genomic context of natural killer receptor extended gene families. Immunol. Rev. 181: 20-38.
- Leeb, T., et al. 2004. Comparative human-mouse-rat sequence analysis of the ICAM gene cluster on HSA 19p13.2 and a 185-kb porcine region from SSC 2q. Gene 343: 239-244.
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- Meadows, S.M., et al. 2008. The myocardin-related transcription factor, MASTR, cooperates with MyoD to activate skeletal muscle gene expression. Proc. Natl. Acad. Sci. USA 105: 1545-1550.

CHROMOSOMAL LOCATION

Genetic locus: MAMSTR (human) mapping to 19q13.33; Mamstr (mouse) mapping to 7 B4.

SOURCE

MAMSTR (P-15) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the C-terminus of MAMSTR of human origin.

STORAGE

Store at 4° C, **D0 NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

PROTOCOLS

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

PRODUCT

Each vial contains 200 μg lgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-167913 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

MAMSTR (P-15) is recommended for detection of MAMSTR of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), 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 MAMSTR siRNA (h): sc-97617, MAMSTR siRNA (m): sc-140365, MAMSTR shRNA Plasmid (h): sc-97617-SH, MAMSTR shRNA Plasmid (m): sc-140365-SH, MAMSTR shRNA (h) Lentiviral Particles: sc-97617-V and MAMSTR shRNA (m) Lentiviral Particles: sc-140365-V.

Molecular Weight of MAMSTR isoforms: 45/33/26 kDa.

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) Immunofluo-rescence: 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.

RESEARCH USE

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

MONOS Satisfation Guaranteed

Try MAMSTR (C-8): sc-398698, our highly recommended monoclonal alternative to MAMSTR (P-15).