SANTA CRUZ BIOTECHNOLOGY, INC.

CMTM4 (D-15): sc-107491



BACKGROUND

CMTM4 (CKLF-like MARVEL transmembrane domain containing 4), also known as CKLFSF4 (chemokine-like factor superfamily member 4), is a 234 amino acid member of the chemokine-like factor family. Members of the chemokine-like factor family share similarity with the chemokine and the transmembrane 4 superfamilies. The chemokine-like factor family is further divided into subfamilies. CMTM4 belongs to a subfamily with CMTM6 and the two proteins are 31.1% identical at the level of amino acids. In addition, CMTM4 shares 97.6% similarity with its mouse homolog. Predominantly expressed in testis and prostate, CMTM4 is a multi-pass membrane protein containing one MARVEL domain. Three CMTM4 isoforms are expressed due to alternative splicing events.

REFERENCES

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- 3. Kittler, R., Putz, G., Pelletier, L., Poser, I., Heninger, A.K., Drechsel, D., Fischer, S., Konstantinova, I., Habermann, B., Grabner, H., Yaspo, M.L., Himmelbauer, H., Korn, B., Neugebauer, K., Pisabarro, M.T. and Buchholz, F. 2004. An endoribonuclease-prepared siRNA screen in human cells identifies genes essential for cell division. Nature 432: 1036-1040.
- 4. Li, T., Guo, X.H., Wang, Y., Markus, P., Shao, L.N., Song, Q.S., Ma, D.L. and Han, W.L. 2008. Preparation, purification and characterization of the polyclonal antibody against human CMTM4. Xi Bao Yu Fen Zi Mian Yi Xue Za Zhi 24: 41-44.

CHROMOSOMAL LOCATION

Genetic locus: CMTM4 (human) mapping to 16q21; Cmtm4 (mouse) mapping to 8 D3.

SOURCE

CMTM4 (D-15) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of CMTM4 of human origin.

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-107491 P, (100 µg 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

CMTM4 (D-15) is recommended for detection of CMTM4 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).

CMTM4 (D-15) is also recommended for detection of CMTM4 in additional species, including equine, canine and bovine.

Suitable for use as control antibody for CMTM4 siRNA (h): sc-93122, CMTM4 siRNA (m): sc-142421, CMTM4 shRNA Plasmid (h): sc-93122-SH, CMTM4 shRNA Plasmid (m): sc-142421-SH, CMTM4 shRNA (h) Lentiviral Particles: sc-93122-V and CMTM4 shRNA (m) Lentiviral Particles: sc-142421-V.

Molecular Weight of CMTM4: 26 kDa.

Positive Controls: HeLa whole cell lysate: sc-2200.

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) 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.

RESEARCH USE

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

PROTOCOLS

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

MONOS Satisfation Guaranteed

Try CMTM4 (1E8): sc-81942, our highly recommended monoclonal alternative to CMTM4 (D-15).