

CMTM7 (P-16): sc-99354

BACKGROUND

CMTM7 (CKLF-like MARVEL transmembrane domain-containing protein 7), also known as CKLFSF7 (chemokine-like factor superfamily member 7), is a 175 amino acid member of the chemokine-like factor superfamily. Highly expressed in leukocytes and localized to the membrane, CMTM7 is a multi-pass protein that contains one MARVEL domain and may be involved in signaling pathways. CMTM7 has four transmembrane domains and shares 89% similarity with its mouse homolog. Different isoforms of CMTM7 exist due to alternative splicing events.

REFERENCES

1. Online Mendelian Inheritance in Man, OMIM™. 2002. Johns Hopkins University, Baltimore, MD. MIM Number: 607890. World Wide Web URL: <http://www.ncbi.nlm.nih.gov/omim/>
2. Han, W., et al. 2003. Identification of eight genes encoding chemokine-like factor superfamily members 1-8 (CKLFSF1-8) by in silico cloning and experimental validation. *Genomics* 81: 609-617.
3. Sugimoto, N., et al. 2006. Foxp3-dependent and -independent molecules specific for CD25⁺CD4⁺ natural regulatory T cells revealed by DNA microarray analysis. *Int. Immunol.* 18: 1197-1209.
4. Zhong, J., et al. 2006. Characterization and expression profile of CMTM3/CKLFSF3. *J. Biochem. Mol. Biol.* 39: 537-545.
5. LocusLink Report (LocusID: 112616). <http://www.ncbi.nlm.nih.gov/LocusLink/>

CHROMOSOMAL LOCATION

Genetic locus: CMTM7 (human) mapping to 3p22.3.

SOURCE

CMTM7 (P-16) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of CMTM7 of human origin.

PRODUCT

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

Blocking peptide available for competition studies, sc-99354 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.

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.

APPLICATIONS

CMTM7 (P-16) is recommended for detection of CMTM7 of 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); non cross-reactive with other CMTM family members.

Suitable for use as control antibody for CMTM7 siRNA (h): sc-77991, CMTM7 shRNA Plasmid (h): sc-77991-SH and CMTM7 shRNA (h) Lentiviral Particles: sc-77991-V.

Molecular Weight of CMTM7: 19 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) 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.