**BACKGROUND**
Chemokines are members of a superfamily of small inducible, secreted, pro-inflammatory cytokines. Members of the chemokine-like factor superfamily (CKLFSF) share similarities with both chemokine and transmembrane 4 super-families of signaling molecules. As a member of the CKLFSF family of proteins, CMTM1 (CKLF-like MARVEL transmembrane domain-containing protein 1), also known as CKLFSF1 (chemokine-like factor superfamily member 1), is a 169 amino acid multi-pass membrane protein that is highly expressed in testis, therefore probably playing a role in spermatogenesis or testicular development. CMTM1 contains a CC-chemokine motif and four transmembrane segments. The gene encoding CMTM1 resides in a tight gene cluster on human chromosome 16 with CKL, CMTM2, CMTM3 and CMTM4. There are at least sixteen isoforms of CMTM1 that are produced as a result of alternative splicing events.

**REFERENCES**

**CHROMOSOMAL LOCATION**
Genetic locus: CMTM1 (human) mapping to 16q21.

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

**SOURCE**
CMTM1 (C-15) is an affinity purified goat polyclonal antibody raised against a peptide mapping at the C-terminus of CMTM1 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-107485 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

**APPLICATIONS**
CMTM1 (C-15) is recommended for detection of CMTM1 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 CMTM1-1, CMTM1-2, CMTM1-5, CMTM1-6, CMTM1-8, CMTM1-10, CMTM1-11, CMTM1-12, CMTM1-13, CMTM1-14, CMTM1-16 or CMTM1-19.

Suitable for use as control antibody for CMTM1 siRNA (h): sc-92994, CMTM1 shRNA Plasmid (h): sc-92994-SH and CMTM1 shRNA (h) Lentiviral Particles: sc-92994-V.

Molecular Weight of CMTM1: 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.

**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.