



# CMTM5 (M-13): sc-109934

## BACKGROUND

CMTM (chemokine-like factor super family) is a novel family of proteins linking chemokines and members of the transmembrane 4 super family (TM4SF). CMTM5 (chemokine-like factor superfamily member 5), also known as CKLF-like MARVEL transmembrane domain containing 5, CKLFSF5 or FLJ37521, is a 223 amino acid multi-pass membrane protein and potential tumor suppressor belonging to the chemokine-like factor family. CMTM5 is highly expressed in brain and contains one MARVEL domain. CMTM5 induces apoptosis of multiple carcinoma cells through a caspase-dependent pathway. Alternative splicing events produce five CMTM5 isoforms; the major variant, termed CMTM5-v1, contains 156 amino acids and is broadly expressed in human fetal and adult tissues, but is undetectable in the majority carcinoma cell lines. The gene encoding CMTM5 maps to human chromosome 14q11.2, a locus associated with multiple cancers.

## REFERENCES

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## CHROMOSOMAL LOCATION

Genetic locus: *Cmtm5* (mouse) mapping to 14 C3.

## STORAGE

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

## SOURCE

CMTM5 (M-13) is an affinity purified goat polyclonal antibody raised against a peptide mapping at the C-terminus of CMTM5 of mouse origin.

## PRODUCT

Each vial contains 200  $\mu$ g IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-109934 P, (100  $\mu$ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## APPLICATIONS

CMTM5 (M-13) is recommended for detection of CMTM5 isoforms 1 and 2 of mouse and rat 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 CMTM5 siRNA (m): sc-142422, CMTM5 shRNA Plasmid (m): sc-142422-SH and CMTM5 shRNA (m) Lentiviral Particles: sc-142422-V.

Molecular Weight of CMTM5: 24 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](http://www.scbt.com) or our catalog for detailed protocols and support products.