



CMTM8 (S-16): sc-102449

BACKGROUND

CMTM8 (CKLF-like MARVEL transmembrane domain containing 8), also known as CKLFSF8 (chemokine-like factor superfamily member 8), is a 173 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. CMTM8 is a multi-pass membrane protein containing one MARVEL domain. MARVEL domain-containing proteins are usually associated with specialized membrane microdomains. Through these specialized membrane microdomains, MARVEL proteins can influence a variety of cellular processes (i.e., vesicular transport carriers or tight junction regulation). CMTM8 is thought to effect ligand-induced clearance of EGFR from cell membranes. This decrease in EGFR signal leads to caspase-dependent and -independent apoptosis. An alternate splice variant that does not contain the entire full-length MARVEL domain, CMTM8-v2, can still induce apoptosis without internalizing the EGFR. CMTM8 is predominantly expressed in liver and pancreas. Human CMTM8 shares 92% similarity with its mouse homolog.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: CMTM8 (human) mapping to 3p22.3.

RESEARCH USE

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

SOURCE

CMTM8 (S-16) is an affinity purified rabbit polyclonal antibody raised against a peptide mapping within an internal region of CMTM8 of human origin.

PRODUCT

Each vial contains 100 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-102449 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

CMTM8 (S-16) is recommended for detection of CMTM8 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 CMTM8 siRNA (h): sc-78113, CMTM8 shRNA Plasmid (h): sc-78113-SH and CMTM8 shRNA (h) Lentiviral Particles: sc-78113-V.

Molecular Weight of CMTM8: 20 kDa.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible goat anti-rabbit IgG-HRP: sc-2030 (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 goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

STORAGE

Store at 4° C, **DO 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.