**BACKGROUND**

The transmembrane 4 superfamily (also known as the tetraspanin family) is a group of cell surface proteins that regulate cell development, activation, growth and motility. Each member contains four hydrophobic domains and participates in the mediation of signal transduction. TM4SF4 (transmembrane 4 L6 family member 4), also known as intestine and liver tetraspan membrane protein (ILTMP), is a 202 amino acid multi-pass membrane protein that belongs to the L6 tetraspanin family. Expressed in jejunum and liver, TM4SF4 regulates density-dependent cell proliferation as well as the adhesive and proliferative state of intestinal epithelial cells. TM4SF4 contains four membrane spanning domains and two sites that undergo post translational N-linked glycosylation, which is necessary for TM4SF4 to produce its growth inhibitory effect. The gene encoding TM4SF4 maps to human chromosome 3q25.1.

**REFERENCES**


**CHROMOSOMAL LOCATION**

Genetic locus: TM4SF4 (human) mapping to 3q25.1; TM4sf4 (mouse) mapping to 3D.

**SOURCE**

TM4SF4 (T-15) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an extracellular domain of TM4SF4 of human origin.

**STORAGE**

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

**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-103272 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

**APPLICATIONS**

TM4SF4 (T-15) is recommended for detection of TM4SF4 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], 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 TM4SF4 family members.

TM4SF4 (T-15) is also recommended for detection of TM4SF4 in additional species, including canine and bovine.

**DATA**

**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 Satisfaction Guaranteed**

Try TM4SF4 (4E6): sc-293348, our highly recommended monoclonal alternative to TM4SF4 (T-15).