



TREML2 (T-14): sc-109101

BACKGROUND

TREML2 (triggering receptor expressed on myeloid cells-like 2), also known as C6orf76 or TLT2, is a 321 amino acid single-pass type I membrane protein that contains one Ig-like V-type domain. Expressed in cultured B cells, as well as in T cell leukemia and monocyte leukemia, TREML2 functions as a cell surface receptor that is thought to play a role in the innate and adaptive immune responses. The gene encoding TREML2 maps to a region on human chromosome 6 that is shared by proteins which contain Ig variable (IgV) domains. Chromosome 6 contains 170 million base pairs and comprises nearly 6% of the human genome. Deletion of a portion of the q arm of chromosome 6 is associated with early onset intestinal cancer, suggesting the presence of a cancer susceptibility locus. Additionally, *Porphyria cutanea tarda*, Parkinson's disease, Stickler syndrome and a susceptibility to bipolar disorder are all associated with genes that map to chromosome 6.

REFERENCES

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- Hashiguchi, M., Kobori, H., Ritprajak, P., Kamimura, Y., Kozono, H. and Azuma, M. 2008. Triggering receptor expressed on myeloid cell-like transcript 2 (TLT-2) is a counter-receptor for B7-H3 and enhances T cell responses. *Proc. Natl. Acad. Sci. USA* 105: 10495-10500.
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CHROMOSOMAL LOCATION

Genetic locus: Trem2 (mouse) mapping to 17 C.

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.

SOURCE

TREML2 (T-14) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an extracellular domain of TREML2 of mouse 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-109101 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

TREML2 (T-14) is recommended for detection of TREML2 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).

Suitable for use as control antibody for TREML2 siRNA (m): sc-154630, TREML2 shRNA Plasmid (m): sc-154630-SH and TREML2 shRNA (m) Lentiviral Particles: sc-154630-V.

Molecular Weight of TREML2: 35 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.