# TCL-1B3/5 (Q-19): sc-11168



The Power to Question

#### **BACKGROUND**

T cell leukemia/lymphoma protein 1B, TCL-1B, (also designated TML1, TCL/MTCP1-like 1, Syncytiotrophoblast-specific protein, and SYN-1), is a protein involved in T cell prolymphocytic leukemia (T-PLL). TCL-1B is located within the region on chromosome 14q32.1, which is frequently involved in chromosomal translocations and inversions with one of the T cell receptor loci in human T cell leukemias and lymphomas. TCL-1B is activated by chromosomal rearrangements involving the TCL1 locus. In mouse, TCL-1B is represented by five homologues, TCL-1B 1–5. The crystal structure of TCL-1B suggests that it may play a role in the transport of small molecules such as retinoids, nucleotides, and fatty acids. TCL-1B is found in both the nucleus and the cytoplasm of normal bone marrow and peripheral lymphocytes.

# **REFERENCES**

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# CHROMOSOMAL LOCATION

Genetic locus: Tcl1b3 (mouse) mapping to 12 E, Tcl1b5 (mouse) mapping to 12 E.

# **SOURCE**

TCL-1B3/5 (Q-19) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of TCL-1B3 of mouse 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  $\mu g$  IgG in 1.0 ml of PBS with <0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-11168 P, (100  $\mu$ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

# **APPLICATIONS**

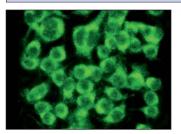
TCL-1B3/5 (Q-19) is recommended for detection of TCL-1B3, TCL-1B3a, and TCL-1B5 of mouse and rat origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Positive Controls: NIH/3T3 whole cell lysate: sc-2210.

#### **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.

#### DATA



TCL-1B3/5 (Q-19): sc-11168. Immunofluorescence staining of methanol-fixed NIH/3T3 cells showing cytoplasmic localization.

# **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.