BACKGROUND
The mature T-cell proliferation 1 (MTCP-1) protein influences the leukemogenic process of mature T cell proliferation. Leukemic cells carrying a t(14;14) (q11;q32) chromosome translocation produce a gene product having sequence similarity with TCL1 and MTCP-1 oncoproteins. MTCP-1 encodes for a cytoplasmic product. Alternative splicing yields a short form (A) and a long form (B).

REFERENCES

CHROMOSOMAL LOCATION
Genetic locus: MTCP1 (human) mapping to Xq28; Mtcp1 (mouse) mapping to X A7.3.

SOURCE
MTCP-1 A (N-15) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the N-terminus of MTCP-1 A of human 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-23234 P (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS
MTCP-1 A (N-15) is recommended for detection of MTCP-1 of mouse, rat and 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), immunohistochemistry (including paraffin-embedded sections) (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:300-1:3000).

MTCP-1 A (N-15) is also recommended for detection of MTCP-1 in additional species, including equine, bovine and porcine.

Molecular Weight of MTCP-1 A: 8 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-29491. 3) Immunohistochemistry: use ImmunoCruz™: sc-2053 or ABC: sc-2023 goat IgG Staining Systems.

DATA
MTCP-1 A (N-15): sc-23234. Immunoperoxidase staining of formalin fixed, paraffin-embedded human heart muscle tissue showing cytoplasmic staining of myocytes.

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.