

# TIM-4 (M-17): sc-79143

## BACKGROUND

TIM-4 (T cell immunoglobulin and mucin domain containing 4), also known as SMUCKLER or TIMD4, is a 378 amino acid single-pass type I membrane protein that contains one Ig-like (immunoglobulin-like) V-type domain and belongs to the immunoglobulin superfamily. Expressed predominately in lymphoid tissues, such as spleen, TIM-4 interacts with TIM-1 and is thought to function as a phosphatidylserine receptor, possibly playing a role in apoptotic cell uptake and T cell proliferation, indicating potential involvement in immune system regulation. The gene encoding TIM-4 maps to human chromosome 5, which contains 181 million base pairs and comprises nearly 6% of the human genome. Deletion of the p arm of chromosome 5 leads to Cri du chat syndrome, while deletion of the q arm or of chromosome 5 altogether is common in therapy-related acute myelogenous leukemias and myelodysplastic syndrome.

## REFERENCES

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## CHROMOSOMAL LOCATION

Genetic locus: Timd4 (mouse) mapping to 11 B1.1.

## RESEARCH USE

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

## SOURCE

TIM-4 (M-17) is an affinity purified goat polyclonal antibody raised against a peptide mapping within a C-terminal cytoplasmic domain of TIM-4 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-79143 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## APPLICATIONS

TIM-4 (M-17) is recommended for detection of TIM-4 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 TIM-4 siRNA (m): sc-76665, TIM-4 shRNA Plasmid (m): sc-76665-SH and TIM-4 shRNA (m) Lentiviral Particles: sc-76665-V.

Molecular Weight of TIM-4: 42 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.

## 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](http://www.scbt.com) or our catalog for detailed protocols and support products.