

# TF (I-20): sc-23596

## BACKGROUND

Hemostasis following tissue injury involves the deployment of essential plasma procoagulants (Prothrombin and Factors X, IX, V and VIII), which are involved in a blood coagulation cascade leading to the formation of insoluble fibrin clots and the promotion of platelet aggregation. Coagulation Factor V (Factor V, FV, proaccelerin, labile factor) is a 2,196 amino acid, single chain glycoprotein that is cleaved by Thrombin to yield an active, Ca<sup>2+</sup>-dependent dimer that is essential to the blood coagulation cascade. Together with catalytic Factor Xa and Ca<sup>2+</sup> on the surface of platelets or endothelial cells, Factor Va coordinates into a Prothrombinase complex, which mediates proteolysis of Prothrombin into active Thrombin. Tissue factor (TF, coagulation factor III) is a cell surface glycoprotein that enables cells to initiate blood coagulation cascades, and it functions as a high-affinity receptor for coagulation Factor VII.

## CHROMOSOMAL LOCATION

Genetic locus: F3 (human) mapping to 1p21.3; F3 (mouse) mapping to 3 G1.

## SOURCE

TF (I-20) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of TF 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-23596 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## STORAGE

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

## APPLICATIONS

TF (I-20) is recommended for detection of TF 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), 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 1:30-1:3000).

Suitable for use as control antibody for TF siRNA (h): sc-44984, TF siRNA (m): sc-40415, TF shRNA Plasmid (h): sc-44984-SH, TF shRNA Plasmid (m): sc-40415-SH, TF shRNA (h) Lentiviral Particles: sc-44984-V and TF shRNA (m) Lentiviral Particles: sc-40415-V.

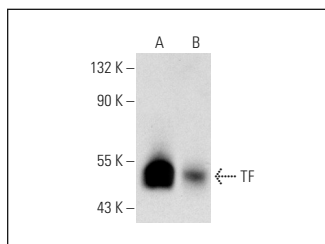
Molecular Weight of TF: 47 kDa.

Positive Controls: A-431 whole cell lysate: sc-2201 or WI-38 whole cell lysate: sc-364260.

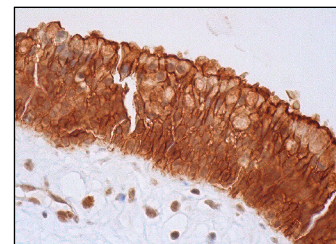
## RECOMMENDED SECONDARY REAGENTS

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) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) 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. 4) Immunohistochemistry: use ImmunoCruz™: sc-2053 or ABC: sc-2023 goat IgG Staining Systems.

## DATA



TF (I-20): sc-23596. Western blot analysis of TF expression in WI-38 (A) and A-431 (B) whole cell lysates.



TF (I-20): sc-23596. Immunoperoxidase staining of formalin fixed, paraffin-embedded human nasopharynx tissue showing membrane and cytoplasmic staining of respiratory epithelial cells.

## RESEARCH USE

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

## PROTOCOLS

See our web site at [www.scbt.com](http://www.scbt.com) or our catalog for detailed protocols and support products.

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Satisfaction  
Guaranteed

Try **TF (H-9): sc-374441** or **TF (C-7): sc-393657**, our highly recommended monoclonal alternatives to TF (I-20).