

TF (FL-295): sc-20160

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^{2+} -dependent dimer that is essential to the blood coagulation cascade. Together with catalytic Factor Xa and Ca^{2+} 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 (FL-295) is a rabbit polyclonal antibody raised against amino acids 15-295 mapping at the C-terminus 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.

APPLICATIONS

TF (FL-295) is recommended for detection of TF of human and, to a lesser extent, mouse and rat 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: JEG-3 whole cell lysate: sc-364255.

STORAGE

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

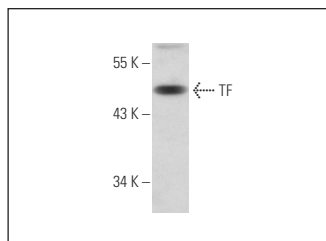
PROTOCOLS

See our web site at www.scbt.com or our catalog for detailed protocols and support products.

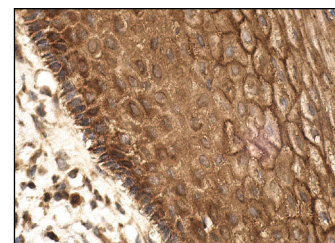
RESEARCH USE

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

DATA



TF (FL-295): sc-20160. Western blot analysis of TF expression in mouse placenta tissue extract.



TF (FL-295): sc-20160. Immunoperoxidase staining of formalin fixed, paraffin-embedded human cervix tissue showing membrane and cytoplasmic staining of squamous epithelial cells.

SELECT PRODUCT CITATIONS

- Hasan, R.N., et al. 2008. Hemin upregulates Egr-1 expression in vascular smooth muscle cells via reactive oxygen species ERK-1/2-Erk-1 and NF κ B. *Circ. Res.* 102: 42-50.
- Georgescu, A., et al. 2009. Chronic venous insufficiency is associated with elevated level of circulating microparticles. *J. Thromb. Haemost.* 7: 1566-1575.
- Sakai, T., et al. 2011. Activated inflammatory cells participate in thrombus size through tissue factor and plasminogen activator inhibitor-1 in acute coronary syndrome: immunohistochemical analysis. *Thromb. Res.* 127: 443-449.
- Cesarman-Maus, G., et al. 2012. Absence of tissue factor expression by neoplastic plasma cells in multiple myeloma. *Leukemia* 26: 1671-1674.
- Yu, Q., et al. 2012. Antiangiogenic effects of GFP08, an agaran-type polysaccharide isolated from *Grateloupia filicina*. *Glycobiology* 22: 1343-52.
- Van de Laar, E., et al. 2014. Cell surface marker profiling of human tracheal basal cells reveals distinct subpopulations, identifies MST1/MSP as a mitogenic signal, and identifies new biomarkers for lung squamous cell carcinomas. *Respir. Res.* 15: 160.

MONOS
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Try **TF (H-9): sc-374441** or **TF (C-7): sc-393657**, our highly recommended monoclonal alternatives to TF (FL-295).