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, Ca²⁺-dependent dimer that is essential to the blood coagulation cascade. Together with catalytic Factor Xa and Ca²⁺ 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-44884, 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.

SELECT PRODUCT CITATIONS