

## TFPI-2 (H-120): sc-28864

### BACKGROUND

The extrinsic pathway of blood coagulation is initiated by contact of plasma factor VII with tissue factor, a cellular membrane glycoprotein that normally is segregated from the bloodstream but can be exposed after tissue injury or newly synthesized in endothelial cells or leukocytes after stimulation by endotoxin and cytokines. Inhibition of factor VIIa/tissue factor activity requires a plasma component (tissue factor pathway inhibitor (TFPI)), lipoprotein-associated coagulation inhibitor (LACI) or extrinsic pathway inhibitor (EPI), and factor Xa. TFPI directly inhibits factor Xa, and, in an Xa-dependent fashion, also inhibits the factor VIIa-tissue factor catalytic complex. TFPI is a multi-valent, Kunitz-type proteinase inhibitor that circulates in association with plasma lipoproteins VLDL, LDL and HDL. TFPI-2 (also known as placental protein 5) is a related glycoprotein that was originally isolated from human placenta.

### REFERENCES

1. Broze, G.J., Jr. and Miletich, J.P. 1987. Characterization of the inhibition of tissue factor in serum. *Blood* 69: 150-155.
2. Rao, L.V. and Rapaport, S.I. 1987. Studies of a mechanism inhibiting the initiation of the extrinsic pathway of coagulation. *Blood* 69: 645-651.

### CHROMOSOMAL LOCATION

Genetic locus: TFPI2 (human) mapping to 7q21.3; Tfp2 (mouse) mapping to 6 A1.

### SOURCE

TFPI-2 (H-120) is a rabbit polyclonal antibody raised against amino acids 71-190 mapping within an internal region of TFPI-2 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.

### RESEARCH USE

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

### APPLICATIONS

TFPI-2 (H-120) is recommended for detection of TFPI-2 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) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for TFPI-2 siRNA (h): sc-41062, TFPI-2 siRNA (m): sc-41063, TFPI-2 shRNA Plasmid (h): sc-41062-SH, TFPI-2 shRNA Plasmid (m): sc-41063-SH, TFPI-2 shRNA (h) Lentiviral Particles: sc-41062-V and TFPI-2 shRNA (m) Lentiviral Particles: sc-41063-V.

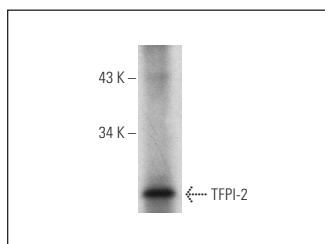
Molecular Weight of TFPI-2: 32 kDa.

Positive Controls: JAR cell lysate: sc-2276, U-87 MG cell lysate: sc-2411 or EG-3 whole cell lysate.

### RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible goat anti-rabbit IgG-HRP: sc-2030 (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 goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

### DATA



TFPI-2 (H-120): sc-28864. Western blot analysis of TFPI-2 expression in rat placenta tissue extract.

### SELECT PRODUCT CITATIONS

1. Ma, S., Chan, Y.P., Kwan, P.S., Lee, T.K., Yan, M., Tang, K.H., Ling, M.T., Vielkind, J.R., Guan, X.Y. and Chan, K.W. 2011. MicroRNA-616 induces androgen-independent growth of prostate cancer cells by suppressing expression of tissue factor pathway inhibitor TFPI-2. *Cancer Res.* 71: 583-592.

### 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.

**MONOS**  
Satisfaction  
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Try **TFPI-2 (B-7): sc-48380** or **TFPI-2 (C-3): sc-48369**, our highly recommended monoclonal alternatives to TFPI-2 (H-120).