TFPI (h): 293 Lysate: sc-113167



The Power to Question

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 multivalent, 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

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- 4. Girard, T.J., Eddy, R., Wesselschmidt, R.L., MacPhail, L.A., Likert, K.M., Byers, M.G., Shows, T.B. and Broze, G.J., Jr. 1991. Structure of the human lipoprotein-associated coagulation inhibitor gene. Intro/exon gene organization and localization of the gene to chromosome 2. J. Biol. Chem. 266: 5036-5041.
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- Kisiel, W., Sprecher, C.A. and Foster, D.C. 1994. Evidence that a second human tissue factor pathway inhibitor (TFPI-2) and human placental protein 5 are equivalent. Blood 84: 4384-4385.
- 7. Miyagi, Y., Yasumitsu, H., Eki, T., Miyata, S., Kkawa, N., Hirahara, F., Aoki, I., Misugi, K. and Miyazaki, K. 1996. Assignment of the human PP5/TFPI-2 gene to 7q22 by FISH and PCR-based human/rodent cell hybrid mapping panel analysis. Genomics 35: 267-268.

CHROMOSOMAL LOCATION

Genetic locus: TFPI (human) mapping to 2q32.1.

PRODUCT

TFPI (h): 293 Lysate represents a lysate of human TFPI transfected 293 cells and is provided as $100 \mu g$ protein in 200 μl SDS-PAGE buffer.

STORAGE

Store at -20° C. Repeated freezing and thawing should be minimized. Sample vial should be boiled once prior to use. Non-hazardous. No MSDS required.

APPLICATIONS

TFPI (h): 293 Lysate is suitable as a Western Blotting positive control for human reactive TFPI antibodies. Recommended use: 10-20 µl per lane.

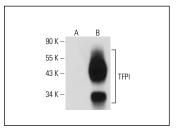
Control 293 Lysate: sc-110760 is available as a Western Blotting negative control lysate derived from non-transfected 293 cells.

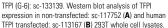
TFPI (G-6): sc-133139 is recommended as a positive control antibody for Western Blot analysis of enhanced human TFPI expression in TFPI transfected 293 cells (starting dilution 1:100, dilution range 1:100-1:1,000).

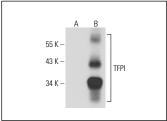
RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-lgG κ BP-HRP: sc-516102 or m-lgG κ BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz MarkerTM Molecular Weight Standards: sc-2035, UltraCruz® Blocking Reagent: sc-516214 and Western Blotting Luminol Reagent: sc-2048.

DATA







TFPI (G-1): sc-137126. Western blot analysis of TFPI expression in non-transfected: sc-117752 (**A**) and human TFPI transfected: sc-113167 (**B**) 293T whole cell lysates.

RESEARCH USE

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

PROTOCOLS

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