

Anti-TFPI Picoband Antibody

Catalog # ABO10140

Product Information

Application	WB
Primary Accession	P10646
Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Format	Lyophilized
Description	Rabbit IgG polyclonal antibody for Tissue factor pathway inhibitor(TFPI) detection. Tested with WB in Human.

Reconstitution Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Additional Information

Gene ID	7035
Other Names	Tissue factor pathway inhibitor, TFPI, Extrinsic pathway inhibitor, EPI, Lipoprotein-associated coagulation inhibitor, LACI, TFPI, LACI, TFPI1
Calculated MW	35015
Application Details	Western blot, 0.1-0.5 µg/ml, Human
Subcellular Localization	Isoform Alpha: Secreted.
Tissue Specificity	Mostly in endothelial cells.
Source	Eukaryota
Protein Name	Tissue factor pathway inhibitor
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg NaN ₃ .
Immunogen	E.coli-derived human TFPI recombinant protein (Position: N253-M304). Human TFPI shares 51.1% and 53.2% amino acid (aa) sequence identity with mouse and rat TFPI, respectively.
Purification	Immunogen affinity purified.
Cross Reactivity	No cross reactivity with other proteins.
Storage	At -20 °C for one year. After reconstitution, at 4 °C for one month. It can also be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated freezing and thawing.

Protein Information

Name	TFPI
Synonyms	LACI, TFPI1
Function	Inhibits factor X (X(a)) directly and, in a Xa-dependent way, inhibits VIIa/tissue factor activity, presumably by forming a quaternary Xa/LACI/VIIa/TF complex. It possesses an antithrombotic action and also the ability to associate with lipoproteins in plasma.
Cellular Location	[Isoform Alpha]: Secreted.
Tissue Location	Mostly in endothelial cells.

Background

TFPI (Tissue factor pathway inhibitor) also known as EPI, LACI, TFI and TFPT1 is a single-chain polypeptide which can reversibly inhibit Factor Xa (Xa) and Thrombin (Factor IIa). While Xa is inhibited, the Xa-TFPI complex can subsequently also inhibit the FVIIa-tissue factor complex. TFPI contributes significantly to the inhibition of Xa in vivo, despite being present at concentrations of only 2.5 nM. The gene for TFPI is located on chromosome 2q31-q32.1, and has nine exons which span 70 kb. TFPI has a relative molecular mass of 34,000 to 40,000 depending on the degree of proteolysis of the C-terminal region.

Images

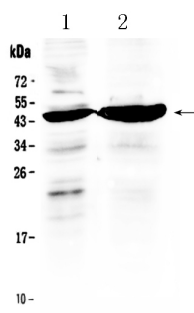


Figure 1. Western blot analysis of TFPI using anti- TFPI antibody (ABO10140). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 50ug of sample under reducing conditions. Lane 1: HELA whole Cell lysates, Lane 2: MCF-7 whole cell lysates. After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA for 50-90 minutes. Blocked the membrane with 5% Non-fat Milk/ TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti- TFPI antigen affinity purified polyclonal antibody (Catalog # ABO10140) at 0.5 μ g/mL overnight at 4 $^{\circ}$ C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:10000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for TFPI at approximately 45KD. The expected band size for TFPI is at 35KD.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.