

For Research Use Only

TFPI Polyclonal antibody

Catalog Number: 31765-1-AP



Basic Information

Catalog Number:

31765-1-AP

Size:

500 ug/ml

Source:

Rabbit

Isotype:

IgG

GenBank Accession Number:

NM_006287.6

GeneID (NCBI):

7035

UNIPROT ID:

P10646-1

Full Name:

tissue factor pathway inhibitor
(lipoprotein-associated coagulation inhibitor)

Calculated MW:

35 kDa

Observed MW:

35-40 kDa

Purification Method:

Antigen affinity Purification

Recommended Dilutions:

WB 1:500-1:3000

Applications

Tested Applications:

WB, ELISA

Species Specificity:

human

Positive Controls:

WB : HepG2 cells,

Background Information

Tissue factor pathway inhibitor (TFPI) is an anticoagulant protein produced primarily by the endothelium and megakaryocytes and alternative mRNA splicing generates two main forms, TFPI α and TFPI β (PMID: 26149025, PMID: 16246254). TFPI α is a soluble form of TFPI. It is a ~46 kDa glycoprotein and consists of an acidic N-terminal region followed by three tandem, Kunitz-type protease inhibitor domains and a basic C-terminal region. Based on protein mass, TFPI β (28 kDa) is considerably smaller than TFPI α (36 kDa), but both migrate with the same apparent molecular mass (46 kDa) on sodium dodecylsulfate polyacrylamide gel electrophoresis (SDS-PAGE), suggesting a difference in post-translational modifications (PMID: 16246254). TFPI associated with LDL is 34 kDa and lacks a substantial portion of the carboxy terminus including at least a portion of the third Kunitz domain. TFPI associated with HDL is 41 kDa and is in part a mixed disulphide complex between TFPI and apolipoprotein AII (PMID: 8979119). TFPI exerts its anticoagulant effects by inhibiting TF-FVIIa in a manner that is dependent on its inhibition of factor Xa (FXa) (PMID: 2927510).

Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

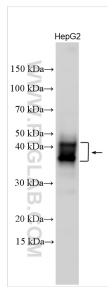
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Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 31765-1-AP (TFPI antibody) at dilution of 1:1500 incubated at room temperature for 1.5 hours.