

## Rabbit anti-human TFPI IgG

Product No. ADG72

### Description

Tissue factor pathway inhibitor (TFPI) is a plasma proteinase inhibitor synthesized by vascular endothelial cells.

Human TFPI is a modular protein comprised of three Kunitz type inhibitor domains flanked by peptide segments that are less structured.

The K1 domain inhibits factor VIIa complexed to tissue factor (TF) while the K2 domain inhibits Factor Xa. No direct protease inhibiting functions have been demonstrated for the K3 domain. In plasma, TFPI is found both in a free-form (active) and in a lipoprotein-associated form (non-active).

Rabbits were immunized with purified human cell-derived, recombinant human TFPI. Total IgG was purified by protein A affinity chromatography.

### Properties

This antibody reacts with native and recombinant forms of TFPI.

### Applications

#### A. Direct ELISA

This antibody can be used at 1 - 2 µg/mL with the appropriate secondary reagents to detect human TFPI.

#### B. Western Blot Analysis

This antibody can be used at 1 - 2 µg/mL with the appropriate secondary reagents to detect human TFPI in Western blot. <sup>(5)</sup>

#### C. Flow Cytometry

The antibody can be used to detect surface-associated TFPI. <sup>(5)</sup>

#### D. Immunofluorescence

The antibody can be used to stain formalin fixed cells. <sup>(5)</sup>

### Presentation

Screw capped vial containing 250 µg of purified antibody in PBS pH 7.4. The IgG concentration is 1 mg/ml.

### Storage and Stability

Store the antibody at 2°-8°C. The antibody is preservative-free. Sodium azide or ProClin is recommended to avoid contamination (final concentration 0.01%-0.1%).

For long-term storage the antibody should be aliquoted and stored at -20°C or colder. It is recommended to avoid freeze-thaw cycles.

### References

1. The lipoprotein-associated coagulation inhibitor that inhibits the factor VII-tissue factor complex also inhibits factor Xa: insight into its possible mechanism of action. Broze, GJ. et al. 1988, Blood 71: 335-343.
2. Proteolysis of tissue factor pathway inhibitor (TFPI) by plasmin: effect on TFPI activity. Li, A. et al. 1998, Thromb Haemost 80: 423-427.
3. Tissue factor pathway inhibitor: biochemistry, molecular biology, physiology and physio-pathology. Witt, I. et al. 2002. Hamostaseologie 22: 30-35.
4. Structure and biology of tissue factor pathway inhibitor. Bajaj, MS. et al. 2002. Thromb Haemost 86: 959-972.
5. TFPI $\alpha$  and TFPI $\beta$  are expressed at the surface of breast cancer cells and inhibit TF-FVIIa activity. Stavik B., et al. 2013. J Hematol Oncol. Jan 15;6:5.

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BIOCHEMIE • PRODUKTE UND SYSTEME

Gerhart-Hauptmann-Str. 48  
69221 Dossenheim

Tel +49 6221 868023

Fax +49 6221 8680255

www.loxo.de - info@loxode

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