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**[ Primary Antibody ]**

# Rabbit Anti-TFPI-2 antibody

**Catalog Number: SL1144R**

**FOR RESEARCH USE ONLY**

**[ DATASHEET ]**

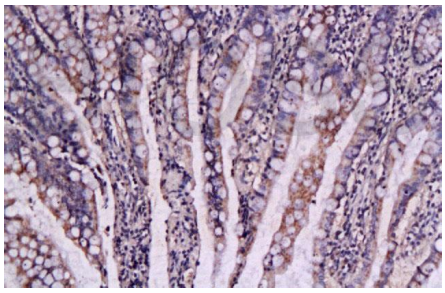
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|---|---|
| **Host:** | Rabbit |
| **Isotype:** | IgG |
| **Clonality:** | Polyclonal |
| **Target:** | TFPI-2 |
| **Immunogen:** | KLH conjugated synthetic peptide derived from human TFPI2: 135-235/235 |
| **Purification:** | affinity purified by Protein A |
| **Concentration:** | 1mg/ml |
| **Storage:** | 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4℃. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. |
| **Applications:** | IHC-P=1:100-500<br>IHC-F=1:100-500<br>IF=1:100-500 （Paraffin sections need antigen repair）<br>not yet tested in other applications.<br>optimal dilutions/concentrations should be determined by the end user. |
| **Reactivity:** | Human, Rat, (predicted: Mouse, Cow) |
| **Predicted MW.:** | 25kDa |
| **Subcellular Location:** | Secretory protein |
| **Background:** | TFPI2 may play a role in the regulation of plasmin-mediated matrix remodeling. It inhibits trypsin, plasmin, factor VIIa/tissue factor and weakly factor Xa, but it has no effect on thrombin. TFPI2 is specific to umbilical vein endothelial cells, liver, placenta, heart, pancreas, and maternal serum at advanced pregnancy. This inhibitor contains three inhibitory domains. TFPI2 contains 3 BPTI/Kunitz inhibitor domains.<br>**Function:** May play a role in the regulation of plasmin-mediated matrix remodeling. Inhibits trypsin, plasmin, factor VIIa/tissue factor and weakly factor Xa. Has no effect on thrombin.<br>**Subcellular Location:** Secreted (constituent of proteinaceous extracellular matrix)<br>**Tissue Specificity:** Umbilical vein endothelial cells, liver, placenta, heart, pancreas, and maternal serum at advanced pregnancy. |

Important Note: This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

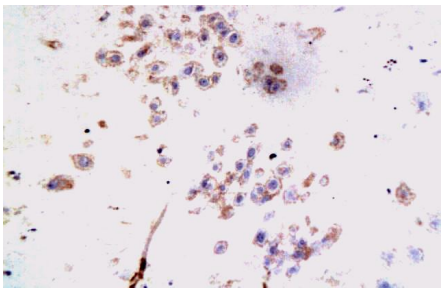
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|---|---|
| | **Similarity:** Contains 3 BPTI/Kunitz inhibitor domains.<br>**Database links:**<br>**Entrez Gene:** 7980 Human<br>Omim: 600033 Human<br>**SwissProt:** P48307 Human<br>**Unigene:** 438231 Human<br>Tissue factor pathway inhibitor (TFPI) is the major inhibitor of the tissue factor coagulation pathway. Tissue factor pathway inhibitor has certain research value in conditions such as atherosclerosis, vascular restenosis, and disseminated intravascular coagulation (DIC).<br>TFPI-2 is also known as placenta protein 5 (PP5) or matrix associated serine protease inhibitor (MSPI).<br>TFPI-2 is a serine protease inhibitor with a relative molecular mass of 25KDa. It is synthesized by vascular system cells (endothelial cells, smooth muscle cells, fibroblasts) and deposited in the Extracellular matrix of these cells.<br>TFPI-2 is a broad-spectrum serine protease inhibitor that can effectively inhibit the activity of various proteolytic enzymes such as matrix metalloproteinases (MMP), plasmin, trypsin, chymotrypsin, and cathepsin, and plays an important role in maintaining the structural integrity of Extracellular matrix (ECM) and inhibiting Tumour cell infiltration and metastasis. TFPI-2 is widely distributed and is highly expressed in normal tissues such as human liver, kidney, heart, and skeletal muscle, and is also expressed to a certain extent in Tumour tissues. |

## [ VALIDATION IMAGES ]



Tissue/cell: human colon tissue; 4% Paraformaldehyde-fixed and paraffin-embedded;
Antigen retrieval: citrate buffer (1M, pH 6.0), boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum, C-0005) at 37°C for 20 min;
Incubation: Anti-TFPI-2 Polyclonal Antibody, Unconjugated (SL1144R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody (SP-0023) and DAB (C-0010) staining



Tissue/cell: human placenta tissue; 4% Paraformaldehyde-fixed and paraffin-embedded;
Antigen retrieval: citrate buffer ( 1M, pH 6.0 ), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min;
Incubation: Anti-TFPI-2 Polyclonal Antibody, Unconjugated(SL1144R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining

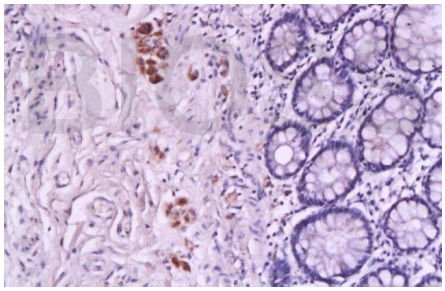
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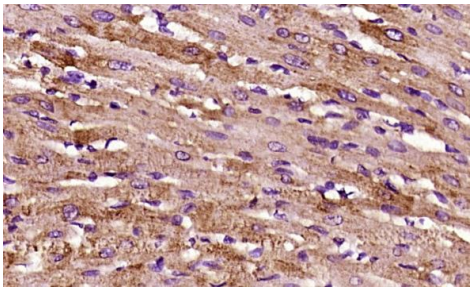
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Tissue/cell: rat colon tissue; 4% Paraformaldehyde-fixed and paraffin-embedded;
Antigen retrieval: citrate buffer ( 1M, pH 6.0 ), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37 for 20 min;
Incubation: Anti-TFPI-2 Polyclonal Antibody, Unconjugated(SL1144R) 1:200, overnight at 4C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining



Paraformaldehyde-fixed, paraffin embedded (Rat heart); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (TFPI-2) Polyclonal Antibody, Unconjugated (SL1144R) at 1:400 overnight at 4°C, followed by a conjugated secondary antibody (sp-0023) for 20 minutes and DAB staining.

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