



Rabbit Anti-Human TFPI monoclonal antibody, clone S512 (CABT-ZB963)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Specificity	It reacts with Human TFPI It has cross-reactivity in ELISA with Mouse TFPI. It has no cross-reactivity in ELISA with Human TFPI2, Human Vitronectin.
Target	TFPI
Immunogen	Recombinant Human TFPI protein
Isotype	IgG1
Source/Host	Rabbit
Species Reactivity	Human
Clone	S512
Purification	Protein A purified
Conjugate	Unconjugated
Applications	ELISA(det), IHC-P, ICC/IF We recommend the following for sandwich ELISA (Capture - Detection): CABT-ZB613 - CABT-ZB963 This antibody will detect TFPI in antibody pair set. [ABPR-ZB191]
Preparation	This antibody was obtained from a rabbit immunized with purified, recombinant Human TFPI.
Format	Purified, Liquid
Concentration	Lot specific

Size	50 µL, 100 µL, 1 mL
Buffer	PBS
Preservative	None
Storage	This antibody can be stored at 2°C-8°C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20°C to -80°C. Preservative-Free. Avoid repeated freeze-thaw cycles.
Ship	Wet ice

BACKGROUND

Introduction	Tissue factor pathway inhibitor (TFPI) is the natural inhibitor of TF coagulant and signaling activities. It is a Kunitz-type serine proteinase inhibitor that down-regulates tissue factor-initiated blood coagulation. With its Kunitz domains, TFPI exhibits significant homology with human inter-alpha-trypsin inhibitor and bovin basic pancreatic trypsin inhibitor. TFPI is the natural inhibitor of TF coagulant and signaling activities. The importance of TFPI in the regulation of blood coagulation is emphasized by how its activity is modulated in human disease. In a factor (F) Xa-dependent feedback system, TFPI binds directly and inhibits the TF-FVII/FVIIa complex. Normally, TFPI exists in plasma both as a full-length molecule and as variably carboxy-terminal truncated forms. TFPI also circulates in complex with plasma lipoproteins. The levels and the dual inhibitor effect of TFPI on FXa and TF-FVII/FVIIa complex offers insight into the mechanisms of various pathological conditions triggered by TF. TFPI may play an important role in modulating TF-induced thrombogenesis and it may also provide a unique therapeutic approach for prophylaxis and/or treatment of various diseases. In addition, studies have shown that TFPI exhibits antiangiogenic and antimetastatic effects in vitro and in vivo. In animal models of experimental metastasis, both circulating and tumor cell-associated TFPI are shown to significantly reduce tumor cell-induced coagulation activation and lung metastasis.
Keywords	TFPI; tissue factor pathway inhibitor (lipoprotein-associated coagulation inhibitor); EPI; TFI

GENE INFORMATION

Synonyms	TFPI; tissue factor pathway inhibitor (lipoprotein-associated coagulation inhibitor); EPI; TFI; LACI; TFPI1; tissue factor pathway inhibitor; anti-convertin; extrinsic pathway inhibitor
Entrez Gene ID	7035
UniProt ID	P10646