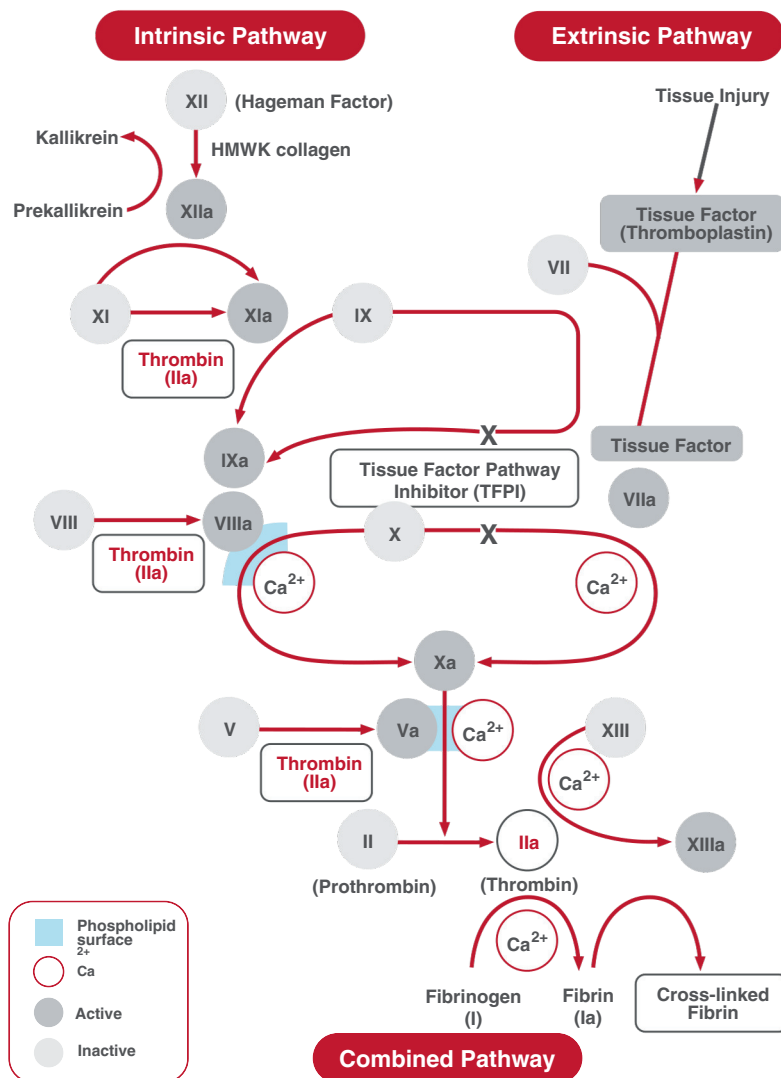


THROMBOTIC RISK MARKERS

Tissue Factor and Tissue Factor Pathway Inhibitor (TFPI)
For Research Into Regulating the Initiation of Coagulation



As the key elements of the Extrinsic Pathway of Coagulation, research has demonstrated the role of Tissue Factor and TFPI in mediating arterial and venous thrombosis.

Tissue Factor

- expression in sepsis leads to DIC
- release by tumors contributes to venous thrombosis
- high levels found in atherosclerosis
- hemostatic protection to vital organs

TFPI

- inhibits prothrombinase activity
- mitigates bleeding in Haemophilia A and B
- low levels lead to increased risk of VTE
- enhances the anticoagulant activity of heparin

ASSAY PARAMETER	
SAMPLES	Citrate collected plasma, cell lysates, tissue extracts, cell culture supernatants
SAMPLE PREPARATION	1:4 dilution (plasma samples), 1:5 (cell culture supernatants)
SAMPLE VOLUME	100 µL diluted sample
TOTAL ASSAY TIME	Overnight incubation
STANDARD RANGE	0 - 1,000 pg/mL
LOWER LIMIT OF DETECTION	10 pg/mL
PRECISION	Intra-assay CV = 4.5% Inter-assay CV = 7.5%
NUMBER OF TESTS	96

ASSAY PARAMETER	
SAMPLES	Citrate collected plasma, cell lysates
SAMPLE PREPARATION	No dilution
SAMPLE VOLUME	25 µL
TOTAL ASSAY TIME	1 hour
STANDARD RANGE	0 - 30 PM
LOWER LIMIT OF DETECTION	-2 PM
PRECISION	N.D.
NUMBER OF TESTS	100

ASSAY	PARAMETER
SAMPLES	Citrate collected plasma
SAMPLE PREPARATION	1:20 dilution
SAMPLE VOLUME	20 µL diluted sample
TOTAL ASSAY TIME	1.5 hours
STANDARD RANGE	0 - 0.2 U/mL
LOWER LIMIT OF DETECTION	N.D.
PRECISION	N.D.
NUMBER OF TESTS	100



IMUBIND® Tissue Factor ELISA

RUO* REF 845

IMUBIND® Tissue Factor ELISA is intended for the measurement of human tissue factor (TF, thromboplastin, factor III) in human plasma, tumor tissue extracts and cell culture supernatants.

*This ELISA recognizes TF-*apo*, TF and TF/VII complexes and is designed such that there is no interference from other coagulation factors or inhibitors of procoagulant activity.*

ACTICHROME® TF

RUO* REF 846

ACTICHROME® TF is a two-stage, chromogenic assay intended for the measurement of human tissue factor procoagulant activity in human plasma and cell lysates.

In the first stage, tissue factor in the sample complexes with human factor VIIa to generate the TF/FVIIa complex and convert human factor X to factor Xa. In the second stage, factor Xa cleaves SPECTROZYME® FXa, a highly specific chromogenic substrate for factor Xa. The cleaved substrate releases a para-nitroaniline (pNA) chromophore into the reaction solution. The solution absorbance is read at 405 nm and compared to those values obtained from a standard curve generated using known amounts of human tissue factor.

ACTICHROME® TFPI

RUO* REF 848

ACTICHROME® TFPI is a chromogenic assay intended for the measurement of Tissue Factor Pathway Inhibitor (TFPI) activity in human plasma where TFPI exhibits an inhibitory effect on the Tissue Factor/FVIIa complex.

A two-stage assay, ACTICHROME TFPI measures the ability of TFPI to inhibit the activity of the TF/FVIIa complex as it activates factor X to factor Xa. In the first stage, plasma samples incubate with TF/FVIIa and the residual TF/FVIIa activity converts FX to FXa. In the second stage, the residual FXa activity cleaves SPECTROZYME® FXa, a highly specific chromogenic substrate for factor Xa, releasing a para-nitroaniline (pNA) chromophore. The solution absorbance is read at 405 nm and compared to those values obtained from a standard curve constructed using known TFPI activity levels.

**This assay is for Research Use Only.
It is not intended for diagnostics or therapeutic procedures.*