

Human Thrombin activatable fibrinolysis inhibitor (TAFI) ELISA Kit



Catalog No: #EK11291

Orders: order@signalwayantibody.com

Package Size: #EK11291-1 48T #EK11291-2 96T

Support: tech@signalwayantibody.com

Description

Product Name	Human Thrombin activatable fibrinolysis inhibitor (TAFI) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Human (Homo sapiens)
Other Names	CPU; PCPB; TAFI; carboxypeptidase B-like protein carboxypeptidase B2 (plasma; carboxypeptidase U) carboxypeptidase U plasma carboxypeptidase B2 thrombin-activable fibrinolysis inhibitor thrombin-act
Accession No.	Q961Y4
Uniprot	Q961Y4
GeneID	1361;
Storage	The stability of ELISA kit is determined by the loss rate of activity. The loss rate of this kit is less than 5% within the expiration date under appropriate storage condition. The loss rate was determined by accelerated thermal degradation test. Keep the kit at 37C for 4 and 7 days, and compare O.D.values of the kit kept at 37C with that of at recommended temperature. (referring from China Biological Products Standard, which was calculated by the Arrhenius equation. For ELISA kit, 4 days storage at 37C can be considered as 6 months at 2 - 8C, which means 7 days at 37C equaling 12 months at 2 - 8C).

Application Details

Detect Range:0.312-20 ng/mL

Sensitivity:0.137 ng/mL

Sample Type:Serum, Plasma, Other biological fluids

Sample Volume: 1-200 µL

Assay Time:1-4.5h

Detection wavelength:450 nm

Product Description

Detection Method: Sandwich Test principle: This assay employs a two-site sandwich ELISA to quantitate CPB2 in samples. An antibody specific for CPB2 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any CPB2 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for CPB2 is added to the wells. After washing, Streptavidin conjugated Horseradish Peroxidase (HRP) is added to the wells. Following a wash to remove any unbound avidin-enzyme reagent, a substrate solution is added to the wells and color develops in proportion to the amount of CPB2 bound in the initial step. The color development is stopped and the intensity of the color is measured.

Product Overview: TAFI, Thrombin Activatable Fibrinolytic Inhibitor, (also known as carboxypeptidase U and plasma carboxypeptidase B) is a 60,000 D molecular ratio glycoprotein (proenzyme form) present in rabbit plasma¹ that modulates fibrinolysis in vivo. This proenzyme is converted to a 35,000 D molecular ratio active form, TAFIa, following proteolytic cleavage by the thrombin/ thrombomodulin complex. TAFIa possesses carboxypeptidase activity with a preference for cleaving lysine and arginine residues from the c-terminus of proteins. Modulation of fibrinolysis occurs when TAFIa cleaves C-terminal arginine and lysine residues of partially degraded fibrin.^{2,4,5} The removal of the c-terminus arginine and lysine residues from fibrin inhibits the continued degradation of fibrin by tPA activated plasmin.³

Note: This product is for in vitro research use only