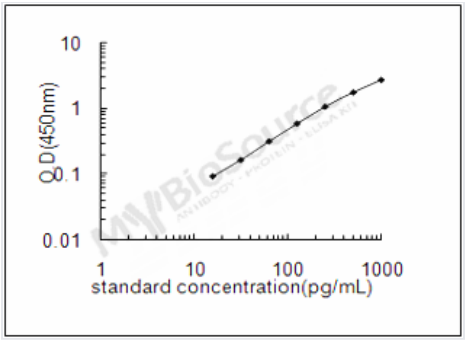
Tissue Factor (F3) ELISA Kit for Human

PRODUCT OVERVIEW

Product Name	Tissue factor (F3), ELISA Kit
Full Product Name	Human Tissue factor ELISA Kit
Product Gene Name	F3 elisa kit
Product Synonym Names	Tissue factor; TF; Coagulation factor III; Thromboplastin; F3; CD142
Species Reactivity	Human
Assay Type	Sandwich
Detection Range	15.6-1000 pg/mL
Sensitivity	10pg/mL
Specificity	This assay recognizes recombinant and natural human TF. No significant cross-reactivity or interference was observed.
Preparation and Storage	For long term storage, please store the entire kit at -20 degree C.
Molecular Weight	27,145 Da
OMIM	134390
3D Structure	ModBase 3D Structure for P13726
Intra-Assay CV	<=5.2%
Inter-Assay CV	<=10.3%
Recovery	105%
Related Product Information for F3 elisa kit	Intended Uses: This immunoassay kit allows for the in vitro quantitative determination of human tissue factor,TF concentrations in serum, Plasma, tissue homogenates and Cell culture supernates and Other biological fluids. Principle of the Assay: The microtiter plate provided in this kit has been pre-coated with an antibody specific to TF. Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated polyclonal antibody preparation specific for TF and Avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. Then a TMB substrate solution is added to each well. Only those wells that contain TF, biotin-conjugated antibody and enzyme-conjugated Avidin will exhibit a change in color. The enzyme-substrate reaction is terminated by the addition of a sulphuric acid solution and the color change is measured spectrophotometrically at a wavelength of 450 nm +/- 2 nm. The concentration of TF in the samples is then determined by comparing the O.D. of the samples to the standard curve.
Other Notes	Small volumes of F3 elisa kit vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for F3 purchase	MBS2884985 is a ready-to-use microwell, strip plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the Tissue factor (F3) ELISA Kit target analytes in biological samples. The concentration gradients of the kit standards or positive controls render a theoretical kit detection range in biological research samples containing F3. The ELISA analytical biochemical technique of the MBS2884985 kit is based on F3 antibody-F3 antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect F3 antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, F3. Appropriate sample types may include undiluted body fluids and/or tissue homogenates, secretions. Quality control assays assessing reproducibility identified the intra-assay CV (%) and inter-assay CV(%).



Typical Testing Data/Standard Curve (for reference only) of F3 elisa kit

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for F3. It may not necessarily be applicable to this product.

NCBI GI #	296010912
NCBI GeneID	2152
NCBI Accession #	NP_001171567.1
UniProt Primary Accession #	P13726
UniProt Secondary Accession #	Q6FHG2; Q86WH4; D3DT47
UniProt Related Accession #	P13726
GenBank Nucleotide #	NM_001178096.1
NCBI Official Full Name	tissue factor isoform 2
NCBI Official Synonym Full Names	coagulation factor III, tissue factor
NCBI Official Symbol	F3
NCBI Official Synonym Symbols	TF; TFA; CD142
UniProt Protein Name	Tissue factor
UniProt Synonym Protein Names	Coagulation factor III; Thromboplastin; CD_antigen: CD142
Protein Family	I-Kappa-B like protein
UniProt Gene Name	F3
UniProt Synonym Gene Names	TF
UniProt Entry Name	TF_HUMAN
NCBI Protein Information	tissue factor
NCBI Summary for F3	This gene encodes coagulation factor III which is a cell surface glycoprotein. This factor enables cells to initiate the blood coagulation cascades, and it functions as the high-affinity receptor for the coagulation factor VII. The resulting complex provides a catalytic event that is responsible for initiation of the coagulation protease cascades by specific limited proteolysis. Unlike the other cofactors of these protease cascades, which circulate as nonfunctional precursors, this factor is a potent initiator that is fully functional when expressed on cell surfaces. There are 3 distinct domains of this factor: extracellular, transmembrane, and cytoplasmic. This protein is the only one in the coagulation pathway for which a congenital deficiency has not been described. Alternate splicing results in multiple transcript variants.[provided by RefSeq, May 2010]

UniProt Comments for F3	F3: Initiates blood coagulation by forming a complex with circulating factor VII or VIIa. The [TF:VIIa] complex activates factors IX or X by specific limited protolysis. TF plays a role in normal hemostasis by initiating the cell-surface assembly and propagation of the coagulation protease cascade. Interacts with HSPE; the interaction, inhibited by heparin, promotes the generation of activated factor X and activates coagulation in the presence of activated factor VII. TF expression is highly dependent upon cell type. TF can also be induced by the inflammatory mediators interleukin 1 and TNF-alpha, as well as by endotoxin, to appear on monocytes and vascular endothelial cells as a component of cellular immune response. Lung, placenta and pancreas. Belongs to the tissue factor family. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Membrane protein, integral; Cell surface Chromosomal Location of Human Ortholog: 1p22-p21 Cellular Component: cell surface; cytoplasm; extracellular matrix; extracellular space; integral to membrane; plasma membrane Molecular Function: hematopoietin/interferon-class (D200-domain) cytokine receptor activity; phospholipid binding; protease binding; protein binding Biological Process: activation of blood coagulation via clotting cascade; activation of plasma proteins during acute inflammatory response; aging; blood coagulation; blood coagulation, extrinsic pathway; caspase activation; cytokine and chemokine mediated signaling pathway; positive regulation of angiogenesis; positive regulation of cell migration; positive regulation of endothelial cell proliferation; positive regulation of positive chemotaxis; positive regulation of protein kinase B signaling cascade; positive regulation of smooth muscle cell migration; response to estradiol stimulus; response to lipopolysaccharide; response to low density lipoprotein stimulus; response to mechanical stimulus; response to temperature stimulus
Research Articles on F3	**1.** Lipopolysaccharide and E. coli activated the coagulation system by a complement- and CD14-dependent up-regulation of tissue factor, leading subsequently to prothrombin activation.
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