

Anti-Tissue Factor/F3 Antibody Picoband®

Catalog Number: PB9701

About F3

Tissue factor also called platelet tissue factor, factor III, or CD142. 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.

Overview

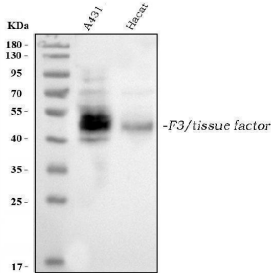
Product Name	Anti-Tissue Factor/F3 Antibody Picoband®
Reactive Species	Human
Description	Boster Bio Anti-Tissue Factor/F3 Antibody Picoband® catalog # PB9701. Tested in ELISA, Flow Cytometry, IF, IHC, ICC, WB applications. This antibody reacts with Human. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Application	Flow Cytometry, IF, IHC, ICC, WB, ELISA (Cap)
Clonality	Polyclonal
Formulation	Each vial contains antibody formulated with stabilizing components, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.01mg NaN ₃ . *This antibody is supplied in a stabilized formulation. Compatibility with conjugation reactions depends on the chemistry of the conjugation method used. For conjugation methods that are not compatible with the stabilizing components present in this formulation, a carrier-free antibody format is required.
Storage Instructions	Store at -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freeze-thaw cycles.
Host	Rabbit
Uniprot ID	P13726

Technical Details

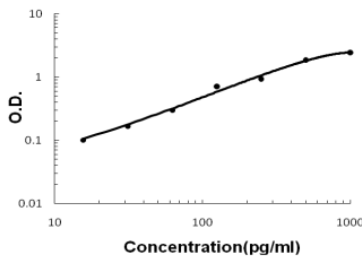
Immunogen	E.coli-derived human Tissue Factor recombinant protein (Position: S33-S295). Human Tissue Factor shares 57.6% and 57.2% amino acid (aa) sequence identity with mouse and rat Tissue Factor, respectively.
-----------	---

Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot, and HRP Conjugated anti-Rabbit IgG Super Vision Assay Kit (SV0002-1) for IHC(P) and ICC.
Cross Reactivity	No cross-reactivity with other proteins
Isotype	Rabbit IgG
Form	Lyophilized
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Purification	Immunogen affinity purified.
Suggested Dilutions	Western blot, 0.1-0.5ug/ml, Human Immunocytochemistry/Immunofluorescence, 5 ug/ml, Human Flow Cytometry (Fixed), 1-3 ug/1x10 ⁶ cells, Human ELISA(Cap), 1-5 ug/ml, Human

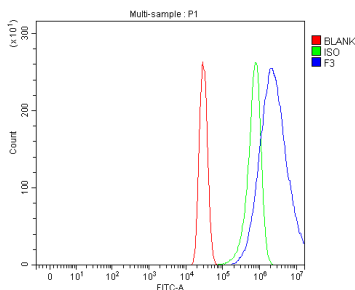
Anti-Tissue Factor/F3 Antibody Picoband® (PB9701) Images



Western blot analysis of Tissue Factor using anti-Tissue Factor antibody (PB9701). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions. Lane 1: human A431 whole cell lysates, Lane 2: human Hacat whole cell lysates. After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-Tissue Factor antigen affinity purified polyclonal antibody (Catalog # PB9701) at 0.5 ug/mL overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002) with Tanon 5200 system. A specific band was detected for Tissue Factor at approximately 50 kDa. The expected band size for Tissue Factor is at 33 kDa.

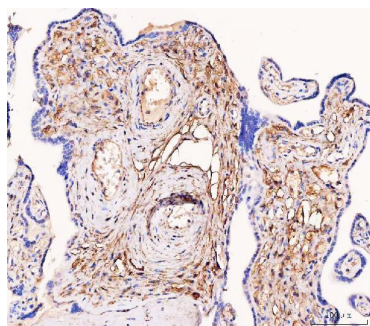


Sandwich ELISA - Recombinant human Tissue Factor/F3 protein standard curve. Use in combination with reagents from Human Tissue Factor/F3 ELISA Kit EZ-Set (DIY Antibody Pairs) (EZ0928).

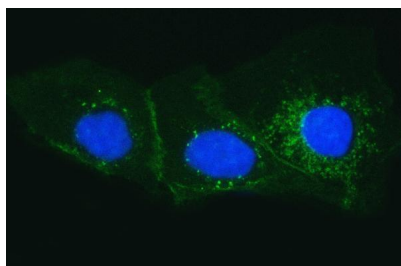


Flow Cytometry analysis of A431 cells using anti-Tissue Factor antibody (PB9701). Overlay histogram showing A431 cells stained with PB9701 (Blue line). To facilitate intracellular staining, cells were fixed with 4% paraformaldehyde and permeabilized with permeabilization buffer. The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-Tissue Factor Antibody (PB9701, 1ug/1x10⁶ cells) for 30 min at 20°C. DyLight®488 conjugated goat anti-rabbit IgG (BA1127, 5-10ug/1x10⁶ cells) was used as secondary antibody for 30 minutes at 20°C. Isotype control antibody (Green line) was rabbit IgG (1ug/1x10⁶) used under the same conditions. Unlabelled sample without incubation with primary antibody and secondary antibody (Red line) was used as a blank control.

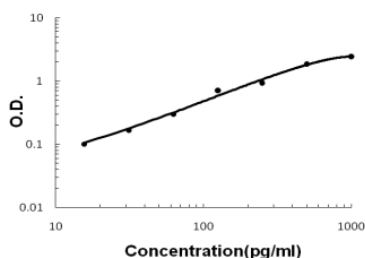
IHC analysis of Tissue Factor using anti-Tissue Factor antibody (PB9701). Tissue Factor was detected in a paraffin-embedded section of human placenta tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked



with 10% goat serum. The tissue section was then incubated with 2 ug/ml rabbit anti-Tissue Factor Antibody (PB9701) overnight at 4°C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (Catalog # SV0002) with DAB as the chromogen.



IF analysis of Tissue Factor using anti-Tissue Factor antibody (PB9701). Tissue Factor was detected in an immunocytochemical section of A431 cells. Enzyme antigen retrieval was performed using IHC enzyme antigen retrieval reagent (AR0022) for 15 mins. The cells were blocked with 10% goat serum. And then incubated with 5 ug/mL rabbit anti-Tissue Factor Antibody (PB9701) overnight at 4°C. DyLight®488 Conjugated Goat Anti-Rabbit IgG (BA1127) was used as secondary antibody at 1:500 dilution and incubated for 30 minutes at 37°C. The section was counterstained with DAPI. Visualize using a fluorescence microscope and filter sets appropriate for the label used.



Sandwich ELISA - Recombinant human Tissue Factor/F3 protein standard curve. Use in combination with reagents from Human Tissue Factor/F3 ELISA Kit EZ-Set (DIY Antibody Pairs) (EZ0928).

5 Publications Citing This Product

1. PubMed ID: 25644821, Li Y, Cao Y, Zeng Z, Liang M, Xue Y, Xi C, Zhou M, Jiang W. Sci Rep. 2015 Feb 3;5:8209. Doi: 10.1038/Srep08209. Angiotensin-Converting Enzyme 2/Angiotensin-(1-7)/Mas Axis Prevents Lipopolysaccharide-Induced Apoptosis Of Pulmonary Microvascular End...
2. PubMed ID: 21823002, Zhu W, Lv Q, Chen H, Wang Z, Zhong Q. J Huazhong Univ Sci Technolog Med Sci. 2011 Aug;31(4):441-5. Doi: 10.1007/S11596-011-0470-8. Epub 2011 Aug 7. Protective Effect And Mechanism Of Sodium Tanshinone Ii A Sulfonate On Microcirculatory Disturbance...
3. PubMed ID: 25317137, Li X, Li M, Li Y, Quan Q, Wang J. Neural Regen Res. 2012 Dec 25;7(36):2860-6. Doi: 10.3969/J.Issn.1673-5374.2012.36.002. Cellular And Molecular Mechanisms Underlying The Action Of Ginsenoside Rg1 Against Alzheimer'S Disease.

Visit bosterbio.com/anti-tissue-factor-picoband-trade-antibody-pb9701-boster.html to see all 5 publications.

Submit a product review to Biocompare.com

Submit a review of this product to Biocompare.com to receive a \$20 Amazon.com giftcard! Your reviews help your fellow scientists make the right decisions. Thank you for your contribution.



Anti-Tissue Factor/F3 Antibody

For Research Use Only. Not for use in diagnostic procedures.