BOSTER BIOLOGICAL TECHNOLOGY
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Anti-Tissue Factor/F3 Antibody Picoband®

Catalog Number: PB9702

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.

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Overview

Product Name	Anti-Tissue Factor/F3 Antibody Picoband®
Reactive Species	Mouse
Description	Boster Bio Anti-Tissue Factor/F3 Antibody Picoband® catalog # PB9702. Tested in WB applications. This antibody reacts with Mouse. 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	WB
Clonality	Polyclonal
Formulation	Each vial contains antibody formulated with stabilizing components, 0.9 mg NaCl, 0.2 mg Na2HPO4, and 0.05 mg NaN3. *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	P20352

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Technical Details

Immunogen	E.coli-derived mouse Tissue Factor recombinant protein (Position: A29-A294). Mouse Tissue Factor shares 62.2% and 82.1% amino acid (aa) sequence identity with human and rat Tissue Factor, respectively.
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot.
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, Mouse

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Anti-Tissue Factor/F3 Antibody Picoband® (PB9702) Images



Western blot analysis of Tissue Factor using anti-Tissue Factor antibody (PB9702). 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 50ug of sample under reducing conditions. Lane 1: Mouse Lung Tissue Lysate. 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 # PB9702) 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.

5 Publications Citing This Product

1. 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.

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: 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...

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