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antibody and ELISA experts

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Anti-Thrombospondin/THBS1 Antibody Picoband™

Catalog Number: PB9450

About THBS1

THBS1 is also known as Thrombospondin 1, TSP1. The protein encoded by this gene is a subunit of a disulfide-linked homotrimeric protein. It is an adhesive glycoprotein that mediates cell-to-cell and cell-to-matrix interactions. Also this protein can bind to fibrinogen, fibronectin, laminin, type V collagen and integrins alpha-V/beta-1. This protein has been shown to play roles in platelet aggregation, angiogenesis, and tumorigenesis. In addition, the thrombospondin-1 protein is a member of the thrombospondinfamily. It is a multi-domain matrix glycoprotein that has been shown to be a natural inhibitor of neovascularization and tumorigenesis in healthy tissue. Both positive and negative modulation of endothelial cell adhesion, motility, and growth have been attributed to TSP1. This should not be surprising considering that TSP1 interacts with at least 12 cell adhesion receptors, including CD36, alphav integrins, beta1 integrins, syndecan, and integrin-associated protein (IAP or CD47). It also interacts with numerous proteases involved in angiogenesis, including plasminogen, urokinase, matrix metalloproteinase, thrombin, cathepsin, and elastase.

Overview

Product Name	Anti-Thrombospondin/THBS1 Antibody Picoband™
Reactive Species	Human
Description	Boster Bio Anti-Thrombospondin/THBS1 Antibody Picoband™ catalog # PB9450. Tested in WB applications. This antibody reacts with Human.
Application	WB
Clonality	Polyclonal
Formulation	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.
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	P07996

Technical Details

Immunogen	A synthetic peptide corresponding to a sequence at the N-terminus of human THBS1, different from the related mouse sequence by five amino acids.
Predicted Reactive Species	Bovine
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

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Form	Lyophilized
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Purification	Immunogen affinity purified.
Suggested Dilutions	Dilute the sample so that the expected range of concentrations fall within the detection range of this kit. If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples. Some PubMed article(s) citing the expression level of this target are as follows: Boster Bio's internal QC testing used: Western blot, 0.1-0.5ug/ml, Human

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Anti-Thrombospondin/THBS1 Antibody Picoband™ (PB9450) Images

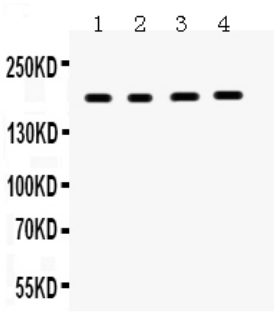

Figure 1. Western blot analysis of THBS1 using anti-THBS1 antibody (PB9450).
Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours.
Lane 1: Human Placenta Tissue Lysate at 50ug,
Lane 2: HELA Whole Cell Lysate at 40ug,
Lane 3: A431 Whole Cell Lysate at 40ug,
Lane 4: MCF-7 Whole Cell Lysate at 40ug.
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-THBS1 antigen affinity purified polyclonal antibody (Catalog # PB9450) 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 THBS1 at approximately 190 kDa. The expected band size for THBS1 is at 130 kDa.

1 Publications Citing This Product

1. PubMed ID: 28831065, Reactive oxygen species%u2013mediated switching expression of MMP-3 in stromal fibroblasts and cancer cells during prostate cancer progression

Visit bosterbio.com/anti-thbs1-picoband-trade-antibody-pb9450-boster.html to see all 1 publications.

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