BOSTER BIOLOGICAL TECHNOLOGY
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Anti-Thrombospondin 2/THBS2 Antibody Picoband®

Catalog Number: A03253-1

About Thbs2

Thrombospondin-2 (THBS2) is a protein that in humans is encoded by the THBS2 gene. The protein encoded by this gene belongs to the thrombospondin family. The THBS2 is mapped to 6q27 and it is located on chromosome 17. The gene was transcribed in fibroblasts, smooth muscle cells, and an osteosarcoma cell line. It functions as a protein inhibitor of tumor growth and angiogenesis and modulates the cell surface properties of mesenchymal cells and be involved in cell adhesion and migration.

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Overview

Product Name	Anti-Thrombospondin 2/THBS2 Antibody Picoband®
Reactive Species	Mouse, Rat
Description	Boster Bio Anti-Thrombospondin 2/THBS2 Antibody Picoband® catalog # A03253-1. Tested in WB applications. This antibody reacts with Mouse, Rat. 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 4mg Trehalose, 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	Q03350

Technical Details

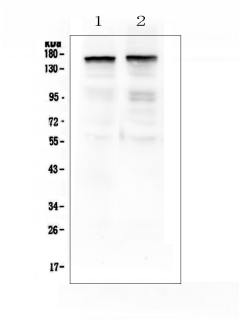
Immunogen	A synthetic peptide corresponding to a sequence at the N-terminus of mouse Thrombospondin 2, which shares 86.6% amino acid (aa) sequence identity with human Thrombospondin 2.
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western

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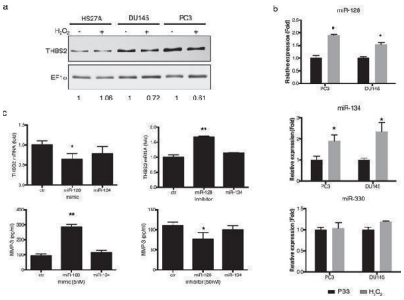
	blot.
Cross Reactivity	No cross-reactivity with other proteins.
Isotype	Rabbit IgG
Form	Lyophilized
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Purification	Immunogen affinity purified.
Suggested Dilutions	Western blot, 0.1-0.5ug/ml

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Anti-Thrombospondin 2/THBS2 Antibody Picoband® (A03253-1) Images



Western blot analysis of Thrombospondin 2 using anti-Thrombospondin 2 antibody (A03253-1). 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: rat brain tissue lysates, Lane 2: mouse brain tissue lysates. After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA 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-Thrombospondin 2 antigen affinity purified polyclonal antibody (Catalog # A03253-1) 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 1:10000 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 Thrombospondin 2 at approximately 160KD. The expected band size for Thrombospondin 2 is at 130KD.



Involvement of thrombospondin-2 (THBS2) and microRNA (miR)-128 in hydrogen peroxide-upregulated matrix metalloproteinase-3 (MMP-3) in prostate cancer cells. Comparison of THBS2 (a) and miR-128, -134, and -330 (b) in PC3 and DU145 prostate cancer cells with or without 50 uM hydrogen peroxide treatment for 48 h through Western blot analysis (a) and a real-time RT-PCR (b), respectively. Real-time RT-PCR of THBS2 mRNA expression level and ELISA of MMP-3 levels in conditioned media of PC3 transfected with miRNA mimics or inhibitors (c). Data are representative of at least three independent experiments and are shown as the mean ± SD. *Student's t -test * p ≤ 0.05; ** p ≤ 0.001 compared with the control group. Index in PubMed under a CC BY license. PMID: 28831065

2 Publications Citing This Product

1. PubMed ID: 10.1038/s41598-017-08835-9, Reactive oxygen species–mediated switching expression of MMP-3 in stromal fibroblasts and cancer cells during prostate cancer progression

2. PubMed ID: 10.1038/s41598-017-08835-9, Reactive oxygen species–mediated switching expression of MMP-3 in stromal fibroblasts and cancer cells during prostate cancer progression

Visit bosterbio.com/anti-thrombospondin-2-picoband-trade-antibody-a03253-1-boster.html to see all 2 publications.

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