

Anti-SPON2 Antibody Picoband®

Catalog Number: A07465-1

About SPON2

Spondin 2, also known as mindin, is a protein that in humans is encoded by the SPON2 gene. SPON2 (spondin 2, mindin) is an extracellular matrix protein belonging to the mindin/F-spondin family. The protein has two amino terminal follistatin-like (FS) domains and a carboxy terminal thrombospondin type 1 repeat (TSR) domain. The FS domains mediate interactions between SPON2 and integrins, whereas the TSR domain contributes to the role of SPON2 as a pathogen pattern recognition molecule. In that capacity, SPON2 plays an important role in initiation of the innate immune response. It functions as a pattern recognition molecule within the extracellular matrix, where it binds to microbial pathogens and presents them to immune cells. Interactions between SPON2 and integrins are also critical for inflammatory cell recruitment and T cell priming. In addition to its role in innate immunity, SPON2 has also been shown to play a role in hippocampal neuronal outgrowth, cancer metastasis, and diabetic nephropathy.

Overview

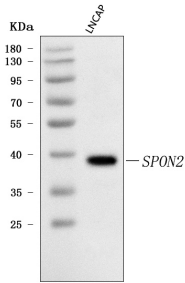
Product Name	Anti-SPON2 Antibody Picoband®
Reactive Species	Human
Description	Boster Bio Anti-SPON2 Antibody Picoband® catalog # A07465-1. Tested in ELISA, WB applications. This antibody reacts with Human. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Application	ELISA, WB
Clonality	Polyclonal
Formulation	Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ .
Storage Instructions	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 freezing and thawing.
Host	Rabbit
Uniprot ID	Q9BUD6

Technical Details

Immunogen	E.coli-derived human SPON2 recombinant protein (Position: Q53-V331).
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 µg/ml.
Purification	Immunogen affinity purified.
Suggested Dilutions	Western blot, 0.25-0.5 ug/ml, Human ELISA, 0.1-0.5 ug/ml, -

Anti-SPON2 Antibody Picoband® (A07465-1) Images



Western blot analysis of SPON2 using anti-SPON2 antibody (A07465-1). 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 30 ug of sample under reducing conditions. Lane 1: human LNCAP 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-SPON2 antigen affinity purified polyclonal antibody (Catalog # A07465-1) 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 1:5000 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 SPON2 at approximately 39 kDa. The expected band size for SPON2 is at 36 kDa.

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Anti-SPON2 Antibody

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