BOSTER BIOLOGICAL TECHNOLOGY
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888-466-3604 | support@bosterbio.com | www.bosterbio.com

Anti-2B4/Cd244 Antibody Picoband®

Catalog Number: A02527-1

About Cd244

CD244 (Cluster of Differentiation 244) is a human protein encoded by the CD244 gene. It is also known as Natural Killer Cell Receptor 2B4. Tangye et al. (1999) mapped the 2B4 gene to 1q22. Suzuki et al. (2008) identified a functional single-nucleotide polymorphism (SNP) in the CD244 gene that contributes to rheumatoid arthritis susceptibility. Functional analysis by Boles et al. (1999) demonstrated that engagement of 2B4 with specific antibody activates NK cytolytic activity. Using recombinant human NK cell-activating ligand 2B4 fused to domains 3 and 4 of rodent Cd4 and flow cytometric analysis, Brown et al. (1998) demonstrated that CD48 binds to 2B4. Watzl et al. (2000) showed that antibody-mediated cross-linking of 2B4 leads to its rapid tyrosine phosphorylation, which is necessary for 2B4-mediated killer cell activity.

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Overview

Product Name	Anti-2B4/Cd244 Antibody Picoband®
Reactive Species	Mouse
Description	Boster Bio Anti-2B4/Cd244 Antibody Picoband® catalog # A02527-1. Tested in ELISA, IHC, 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	ELISA, IHC, WB
Clonality	Polyclonal
Formulation	Each vial contains 4 mg Trehalose, 0.9 mg NaCl and 0.2 mg Na2HPO4.
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	Q07763

Technical Details

Immunogen	E.coli-derived mouse 2B4/Cd244 recombinant protein (Position: Q20-N374).

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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, 0.25-0.5ug/ml, Mouse, Rat Immunohistochemistry (Paraffin-embedded Section), 2-5ug/ml, Mouse ELISA, 0.1-0.5ug/ml, -

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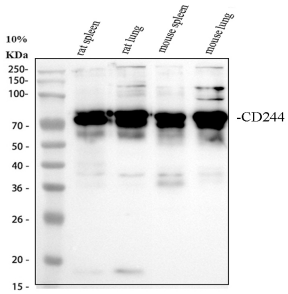
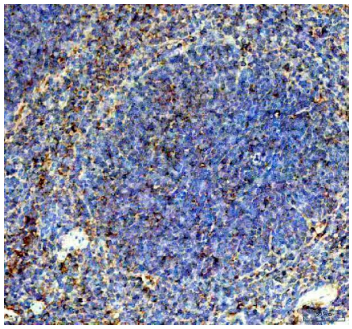
Anti-2B4/Cd244 Antibody Picoband® (A02527-1) Images



Western blot analysis of 2B4/Cd244 using anti-2B4/Cd244 antibody (A02527-1). Electrophoresis was performed on a 10% SDS-PAGE gel at 80V (Stacking gel) / 120V (Resolving gel) for 2 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions. Lane 1: rat spleen tissue lysates, Lane 2: rat lung tissue lysates, Lane 3: mouse spleen tissue lysates, Lane 4: mouse lung tissue 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-2B4/Cd244 antigen affinity purified polyclonal antibody (A02527-1) 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 (Catalog # BA1054) at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an ECL Plus Western Blotting Substrate (Catalog # AR1196-200) with Tanon 5200 system. A specific band was detected for 2B4/Cd244 at approximately 65-75 kDa. The expected band size for 2B4/Cd244 is at 42 kDa.



IHC analysis of 2B4/Cd244 using anti-2B4/Cd244 antibody (A02527-1). 2B4/Cd244 was detected in a paraffin-embedded section of mouse spleen 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-2B4/Cd244 Antibody (A02527-1) 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.

Anti-2B4/Cd244 Antibody

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