BOSTER BIOLOGICAL TECHNOLOGY
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Anti-Ifngr1 Antibody Picoband®

Catalog Number: A01716-4

About Ifngr1

Interferon gamma receptor 1 (IFNGR1) also known as CD119 (Cluster of Differentiation 119), is a protein that in humans is encoded by the IFNGR1 gene. IFN-gamma plays key roles in both the innate and adaptive immune response. IFN-gamma activates the cytotoxic activity of innate immune cells, such as macrophages and NK cells. IFN-gamma production by NK cells and antigen presenting cells (APCs) promotes cell-mediated adaptive immunity by inducing IFN-gamma production by T lymphocytes, increasing class I and class II MHC expression, and enhancing peptide antigen presentation. Due to differences in the degree of glycosylation, there are 3 forms of IFN-gamma, with approximate molecular weights of 25, 20, and 15.5 kDa by SDS-PAGE. The anti-viral activity of IFN-gamma is due to its induction of PKR and other regulatory proteins. Binding of IFN-gamma to the IFNGR1/IFNGR2 complex promotes dimerization of the receptor complexes to form the (IFNGR1/IFNGR2)2 -IFN-gamma dimer. Binding induces a conformational change in receptor intracellular domains and signaling involves Jak1, Jak2, and Stat1. The critical role of IFN-gamma in amplification of immune surveillance and function is supported by increased susceptibility to pathogen infection by IFN-gamma or IFNGR knockout mice and in humans with inactivating mutations in IFNGR1 or IFNGR2. IFN-gamma also appears to have a role in atherosclerosis.

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Overview

Product Name	Anti-Ifngr1 Antibody Picoband®
Reactive Species	Mouse, Rat
Description	Boster Bio Anti-Ifngr1 Antibody Picoband® catalog # A01716-4. Tested in ELISA, 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, WB
Clonality	Polyclonal
Formulation	Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na2HPO4.
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	P15261

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Technical Details

Immunogen	E.coli-derivedmouseIfngr1recombinantprotein(Position:L45-Q347).MouseIfngr1shares?54.2%?amino?acid?(aa)?sequence?identity?withhumanIFNGR1.
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	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, Mouse, Rat ELISA, 0.1-0.5 ug/ml, -

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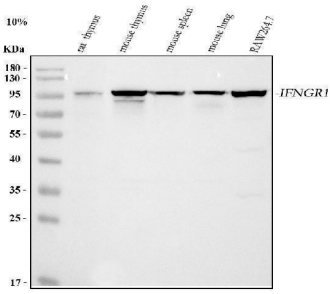
Anti-Ifngr1 Antibody Picoband® (A01716-4) Images



Western blot analysis of Ifngr1 using anti-Ifngr1 antibody (A16132-1). 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: rat thymus tissue lysates, Lane 2: mouse thymus tissue lysates, Lane 3: mouse spleen tissue lysates, Lane 4: mouse lung tissue lysates, Lane 5: mouse RAW264.7 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-Ifngr1 antigen affinity purified polyclonal antibody (Catalog # A16132-1) 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 Ifngr1 at approximately 96 kDa. The expected band size for Ifngr1 is at 52 kDa.

Anti-Ifngr1 Antibody

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