BOSTER BIOLOGICAL TECHNOLOGY
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Anti-Insulin Receptor/INSR Antibody Picoband®

Catalog Number: PB10072

About INSR

INSR (INSULIN RECEPTOR) is a tetramer of 2 alpha and 2 beta subunits that are coded by a single gene and are joined by disulfide bonds, a mechanism parallel to that of its ligand, insulin. It belongs to the large class of tyrosine kinase receptors. The insulin receptor gene is mapped to 19p13.2. The insulin receptor mediates their activity by causing the addition of a phosphate group to particular tyrosines on certain proteins within a cell. The INSR gene spans more than 120 kb and has 22 exons. Functional studies of the INSR SNPs show no effect on mRNA levels or splicing in peripheral blood leukocytes or on binding of insulin to mononuclear cells.

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Overview

Product Name	Anti-Insulin Receptor/INSR Antibody Picoband®
Reactive Species	Human, Rat
Description	Boster Bio Anti-Insulin Receptor/INSR Antibody Picoband® catalog # PB10072. Tested in WB applications. This antibody reacts with Human, 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 antibody formulated with stabilizing components, 0.9 mg NaCl, 0.2 mg Na2HPO4, and 0.05 mg NaN3. *This antibody is supplied in a stabilized formulation. Compatibility with conjugation reactions depends on the chemistry of the conjugation method used. For conjugation methods that are not compatible with the stabilizing components present in this formulation, a carrier-free antibody format is required.
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	P06213

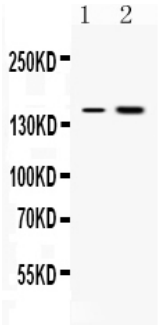
Technical Details

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Immunogen	A synthetic peptide corresponding to a sequence at the N-terminus of human Insulin Receptor, identical to the related mouse and rat sequences.
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, 0.1-0.5ug/ml, Human, Rat

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Anti-Insulin Receptor/INSR Antibody Picoband® (PB10072) Images



Western blot analysis of Insulin Receptor using anti-Insulin Receptor antibody (PB10072). 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 kidney tissue lysates, Lane 2: HEPG2 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-Insulin Receptor antigen affinity purified polyclonal antibody (Catalog # PB10072) 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 Insulin Receptor at approximately 155 kDa. The expected band size for Insulin Receptor is at 156 kDa.

1 Publications Citing This Product

1. PubMed ID: 25352008, Wang Q, Sun X, Li X, Dong X, Li P, Zhao L. Mol Med Rep. 2015 Jan;11(1):151-8. Doi: 10.3892/Mmr.2014.2762. Epub 2014 Oct 23. Resveratrol Attenuates Intermittent Hypoxia-Induced Insulin Resistance In Rats: Involvement Of Sirtuin 1 And The Phosphatid...

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Anti-Insulin Receptor/INSR Antibody

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