

Anti-IRS1 Antibody Picoband™

Catalog Number: PB9223

About IRS1

Insulin receptor substrate 1 (IRS-1) is a signalling adapter protein that in humans is encoded by the IRS-1 gene. It is mapped to 2q36.3. This gene exhibited no intrinsic enzyme activity, and it can serve as a docking protein involved in binding and activating other signal transduction molecules after being phosphorylated on tyrosine by insulin receptor kinase. IRS1 plays a key role in transmitting signals from the insulin and insulin-like growth factor-1 (IGF-1) receptors to intracellular pathways PI3K/Akt and Erk MAP kinase pathways. IRS1 also has important biological function for both metabolic and mitogenic (growth promoting) pathways. In addition to those, IRS1 is a key regulator of PI3K within malignant cells.

Overview

Product Name	Anti-IRS1 Antibody Picoband™
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-IRS1 Antibody Picoband™ catalog # PB9223. Tested in Flow Cytometry, IF, IHC, ICC, WB applications. This antibody reacts with Human, Mouse, Rat.
Application	Flow Cytometry, IF, IHC, ICC, WB
Clonality	Polyclonal
Formulation	Each vial contains 5mg BSA, 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	P35568

Technical Details

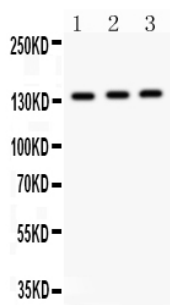
Immunogen	E.coli-derived human IRS1 recombinant protein (Position: S1041-Q1242). Human IRS1 shares 78% and 80% amino acid (aa) sequences identity with mouse and rat IRS1, respectively.
Predicted Reactive Species	Bovine, Horse, Monkey, Rabbit
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot, and HRP Conjugated anti-Rabbit IgG Super Vision Assay Kit (SV0002-1) for IHC(P) and ICC.
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	Dilute the sample so that the expected range of concentrations fall within the detection range of this kit. If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples. Some PubMed article(s) citing the expression level of this target are as follows: Boster Bio's internal QC testing used: Western blot, 0.1-0.5ug/ml, Human, Mouse, Rat Immunohistochemistry (Paraffin-embedded Section), 0.5-1ug/ml, Human, Rat, By Heat Immunocytochemistry/Immunofluorescence, 2ug/ml, Human Flow Cytometry, 1-3ug/1x10⁶ cells, Human

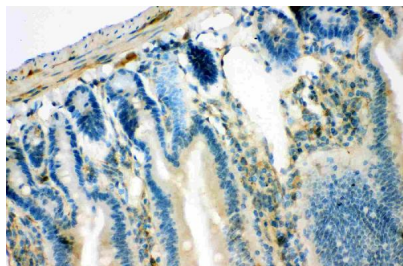
Anti-IRS1 Antibody Picoband™ (PB9223) Images



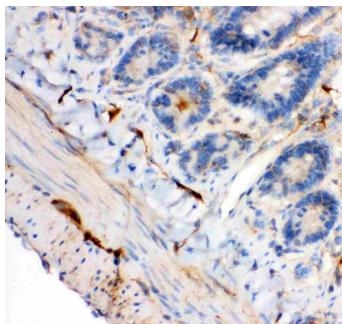
Anti-IRS1 antibody, PB9223, Western blotting
All lanes: Anti IRS1 (PB9223) at 0.5ug/ml
WB: Recombinant Human IRS1 Protein 0.5ng
Predicted bind size: 39KD
Observed bind size: 39KD



Anti-IRS1 antibody, PB9223, Western blotting
All lanes: Anti IRS1 (PB9223) at 0.5ug/ml
Lane 1: A549 Whole Cell Lysate at 40ug
Lane 2: MM453 Whole Cell Lysate at 40ug
Lane 3: JURKAT Whole Cell Lysate at 40ug
Predicted bind size: 132KD
Observed bind size: 132KD

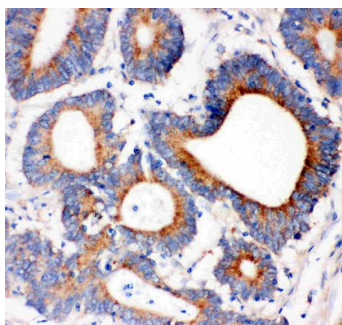
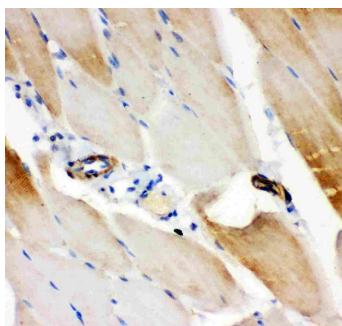


Anti-IRS1 antibody, PB9223, IHC(P)
IHC(P): Mouse Intestine Tissue

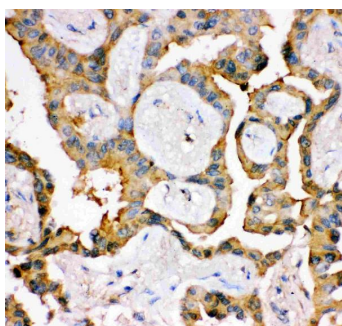


Anti-IRS1 antibody, PB9223, IHC(P)
IHC(P): Rat Intestine Tissue

Anti-IRS1 antibody, PB9223, IHC(P)
IHC(P): Rat Skeletal Muscle Tissue



Anti-IRS1 antibody, PB9223, IHC(P)
IHC(P): Human Intestinal Cancer Tissue



Anti-IRS1 antibody, PB9223, IHC(P)
IHC(P): Human Lung Cancer Tissue

2 Publications Citing This Product

1. PubMed ID: PMID:26550236, Vibration exercise decreases insulin resistance and modulates the insulin signaling pathway in a type 2 diabetic rat model
2. PubMed ID: 25536154, Mi L, Chen Y, Zheng X, Li Y, Zhang Q, Mo D, Yang G. J Cell Biochem. 2015 Jul;116(7):1195-204. Doi: 10.1002/Jcb.25065. Microrna-139-5P Suppresses 3T3-L1 Preadipocyte Differentiation Through Notch And Irs1/Pi3K/Akt Insulin Signaling Pathways.

Visit bosterbio.com/anti-irs1-picoband-trade-antibody-pb9223-boster.html to see all 2 publications.

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