

**Anti-IRS1 Picoband Antibody**  
**Catalog # ABO11914****Specification**

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**Anti-IRS1 Picoband Antibody - Product Information**

Application	WB, IHC
Primary Accession	<a href="#">P35568</a>
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Format	Lyophilized

**Description**

Rabbit IgG polyclonal antibody for Insulin receptor substrate 1(IRS1) detection. Tested with WB, IHC-P in Human;Mouse;Rat.

**Reconstitution**

Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

**Anti-IRS1 Picoband Antibody - Additional Information**

**Gene ID** 3667

**Other Names**

Insulin receptor substrate 1, IRS-1, IRS1

**Calculated MW**

131591 MW KDa

**Application Details**

Immunohistochemistry(Paraffin-embedded Section), 0.5-1 µg/ml, Human, Mouse, Rat, By Heat<br>Western blot, 0.1-0.5 µg/ml, Human<br>

**Protein Name**

Insulin receptor substrate 1

**Contents**

Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na<sub>2</sub>HPO<sub>4</sub>, 0.05mg Na<sub>3</sub>.

**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.

**Purification**

Immunogen affinity purified.

**Cross Reactivity**

No cross reactivity with other proteins

**Storage**

**At -20°C for one year. After r°Constitution,**

at 4°C for one month. It°Can also be aliquotted and stored frozen at -20°C for a longer time.Avoid repeated freezing and thawing.

**Sequence Similarities**

Contains 1 IRS-type PTB domain.

**Anti-IRS1 Picoband Antibody - Protein Information**

**Name** IRS1

**Function**

May mediate the control of various cellular processes by insulin. When phosphorylated by the insulin receptor binds specifically to various cellular proteins containing SH2 domains such as phosphatidylinositol 3-kinase p85 subunit or GRB2. Activates phosphatidylinositol 3-kinase when bound to the regulatory p85 subunit (By similarity).

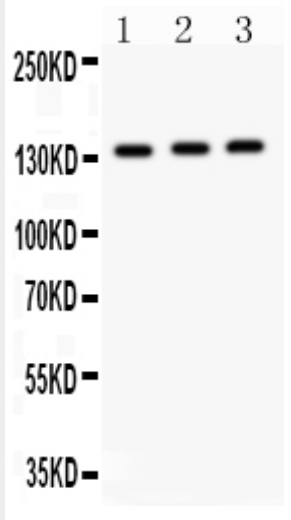
**Anti-IRS1 Picoband Antibody - Protocols**

Provided below are standard protocols that you may find useful for product applications.

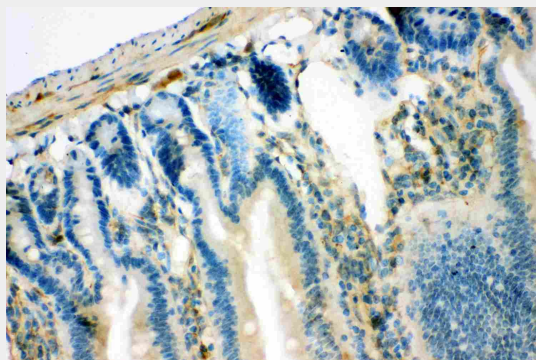
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

**Anti-IRS1 Picoband Antibody - Images**

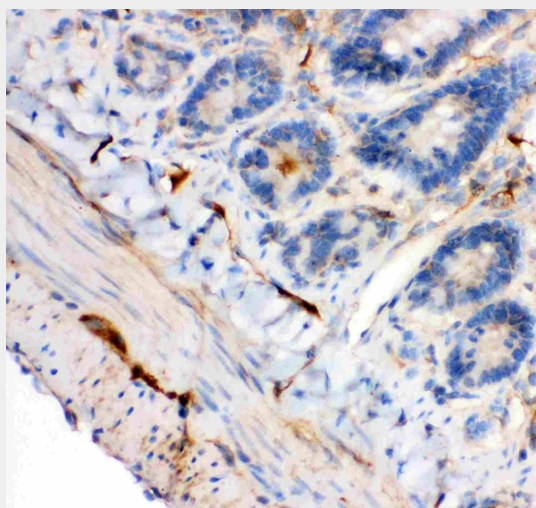
Anti- IRS1 antibody, ABO11914, Western blottingAll lanes: Anti IRS1 (ABO11914) at 0.5ug/mlWB: Recombinant Human IRS1 Protein 0.5ngPredicted bind size: 39KDObserved bind size: 39KD



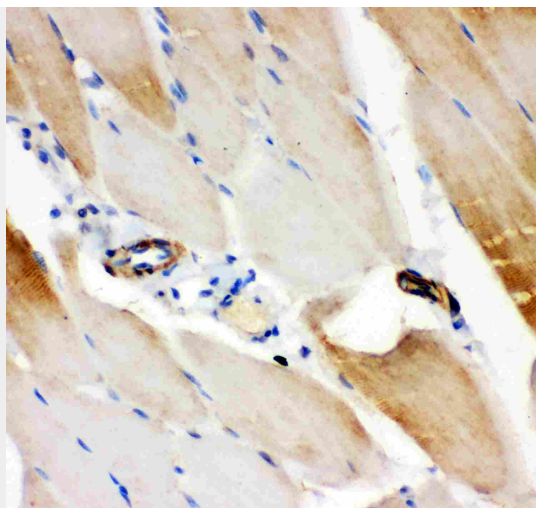
Anti- IRS1 antibody, ABO11914, Western blottingAll lanes: Anti IRS1 (ABO11914) at 0.5ug/mlLane 1: A549 Whole Cell Lysate at 40ugLane 2: MM453 Whole Cell Lysate at 40ugLane 3: JURKAT Whole Cell Lysate at 40ugPredicted bind size: 132KDObserved bind size: 132KD



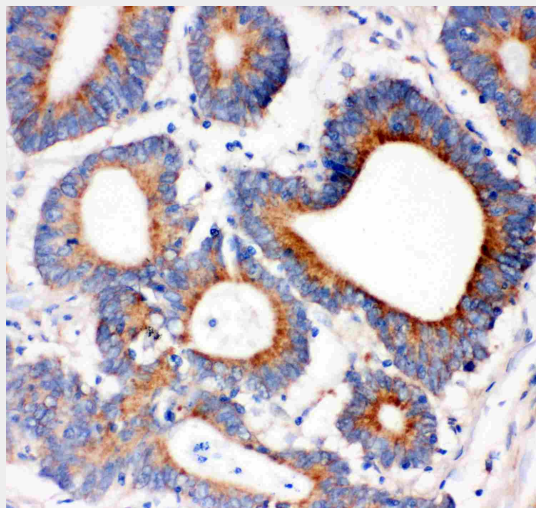
Anti- IRS1 antibody, ABO11914, IHC(P)IHC(P): Mouse Intestine Tissue



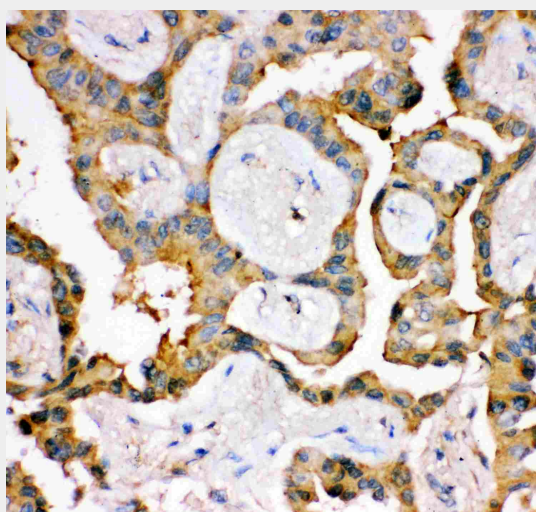
Anti- IRS1 antibody, ABO11914, IHC(P)IHC(P): Rat Intestine Tissue



Anti- IRS1 antibody, ABO11914, IHC(P)IHC(P): Rat Skeletal Muscle Tissue



Anti- IRS1 antibody, ABO11914, IHC(P)IHC(P): Human Intestinal Cancer Tissue



Anti- IRS1 antibody, ABO11914, IHC(P)IHC(P): Human Lung Cancer Tissue

**Anti-IRS1 Picoband Antibody - Background**

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.