

## Anti-Insulin receptor substrate 1 IRS1 Antibody Picoband® PE Conjugated

Catalog Number: PA2269-PE

### 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 plays 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

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|----------------------|--|
| Product Name         | Anti-Insulin receptor substrate 1 IRS1 Antibody Picoband® PE Conjugated                                      |
| Reactive Species     | Human, Mouse, Rat  |
| Application          | Flow Cytometry   |
| Clonality            | Polyclonal   |
| Formulation          | Each vial contains 50% glycerol, 0.9% NaCl, 0.2% Na <sub>2</sub> HPO <sub>4</sub> , 0.02% NaN <sub>3</sub> . |
| Storage Instructions | At -20°C for one year from date of receipt. Avoid repeated freezing and thawing. Protect from light.         |
| Host                 | Rabbit   |
| Uniprot ID           | P35569   |

### Technical Details

|                     |  |
|---------------------|--|
| Immunogen           | A synthetic peptide corresponding to a sequence at the N-terminus of mouse IRS1, identical to the related rat sequence, and different from the related human sequence by one amino acid. |
| Cross Reactivity    | No cross-reactivity with other proteins  |
| Isotype             | Rabbit IgG   |
| Form                | Liquid   |
| Concentration       | 0.5 mg/mL  |
| Purification        | Immunogen affinity purified.   |
| Conjugate           | PE<br>Excitation Wavelength: 566 nm<br>Emission Wavelength: 574 nm   |
| Suggested Dilutions | Flow Cytometry, Optimal dilutions should be determined by end users.   |

## 2 Publications Citing This Product

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1. PubMed ID: 10.1016/j.anireprosci.2019.05.006, Effect of maternal feed restriction in dairy goats at different stages of gestation on skeletal muscle development and energy metabolism of kids at the time of births

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-antibody-pa2269-boster.html](http://bosterbio.com/anti-irs1-antibody-pa2269-boster.html) to see all 2 publications.

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