

**Phospho-IRS1(Y1179) Antibody Blocking peptide**  
**Synthetic peptide**  
**Catalog # BP3625a****Specification**

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**Phospho-IRS1(Y1179) Antibody Blocking peptide - Product Information**Primary Accession [P35568](#)**Phospho-IRS1(Y1179) Antibody Blocking peptide - Additional Information****Gene ID** 3667**Other Names**

Insulin receptor substrate 1, IRS-1, IRS1

**Target/Specificity**

The synthetic peptide sequence used to generate the antibody [AP3625a](/products/AP3625a) was selected from the region of human Phospho-IRS1-pY1179. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

**Format**

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

**Precautions**

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

**Phospho-IRS1(Y1179) Antibody Blocking peptide - 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).

**Phospho-IRS1(Y1179) Antibody Blocking peptide - Protocols**

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

- [Blocking Peptides](#)

**Phospho-IRS1(Y1179) Antibody Blocking peptide - Images****Phospho-IRS1(Y1179) Antibody Blocking peptide - Background**

IRS1 may mediate the control of various cellular processes by insulin. When phosphorylated by the insulin receptor it binds specifically to various cellular proteins containing SH2 domains such as phosphatidylinositol 3-kinase p85 subunit or GRB2. It activates phosphatidylinositol 3-kinase when bound to the regulatory p85 subunit.

**Phospho-IRS1(Y1179) Antibody Blocking peptide - References**

Kawakami,A., Circulation 118 (7), 731-742 (2008)Yi,Z., Anal. Chem. 77 (17), 5693-5699 (2005)