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# Phospho-IRS-1-S639 Antibody
**Purified Rabbit Polyclonal Antibody (Pab)**
**Catalog # AE1018d**

## Specification

### Phospho-IRS-1-S639 Antibody - Product Information

| | |
|---|---|
| Application | **WB, IHC** |
| Primary Accession | P35568 |
| Reactivity | **Human, Mouse, Rat** |
| Host | **Rabbit** |
| Clonality | **Polyclonal** |
| Concentration | **1mg/ml** |
| Isotype | **Rabbit IgG** |
| Calculated MW | **131591** |

### Phospho-IRS-1-S639 Antibody - Additional Information

**Gene ID** 3667

**Other Names**
Insulin receptor substrate 1, IRS-1, IRS1

**Target/Specificity**
The antibody was affinity-purified from rabbit antiserum using epitope-specific phosphopeptide column, and the antibody against non-phosphopeptide was removed using non-phosphopeptide column corresponding to the phosphorylation site.

**Dilution**
WB~~1:500~1:1000
IHC~~1:50~1:100

**Format**
affinity Purified IgG, in PBS, 0.02% sodium azide and 50% glycerol.

**Storage**
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**
Phospho-IRS-1-S639 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

### Phospho-IRS-1-S639 Antibody - Protein Information

**Name** IRS1

**Function**

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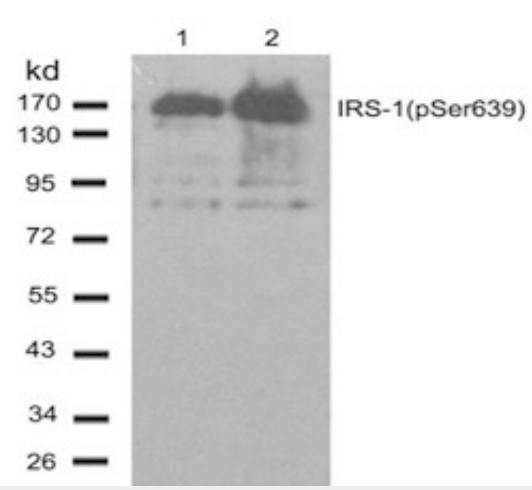
May mediate the control of various cellular processes by insulin. When phosphorylated by the insulin receptor binds specifically to various cellular proteins containing SH2 domains such as phosphatidylinositol 3-kinase p85 subunit or GRB2. Activates phosphatidylinositol 3-kinase when bound to the regulatory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

## Phospho-IRS-1-S639 Antibody - Protocols

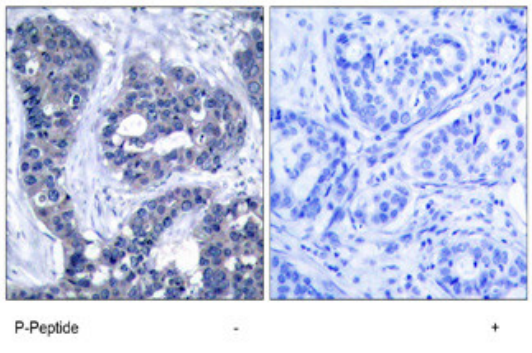
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

## Phospho-IRS-1-S639 Antibody - Images




Western blot analysis of extracts from 293 cells (Lane 1) and 293 cells treated with EGF (200ng/ml, 15min) using Phospho-IRS-1-S639 Antibody (#AE1018d).




Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue, using Phospho-IRS-1-S639 Antibody (#AE1018d).

## Phospho-IRS-1-S639 Antibody - Background

This gene encodes a protein which is phosphorylated by insulin receptor tyrosine kinase. Mutations in this gene are associated with type II diabetes and susceptibility to insulin resistance.

**Phospho-IRS-1-S639 Antibody - References**

COMMON VARIANTS IN 40 GENES ASSESSED FOR DIABETES INCIDENCE AND RESPONSE TO METFORMIN AND LIFESTYLE INTERVENTIONS IN THE DIABETES PREVENTION PROGRAM. Jablonski KA, et al. Diabetes, 2010 Aug 3. PMID 20682687.
A genetic association study of maternal and fetal candidate genes that predispose to preterm prelabor rupture of membranes (PROM). Romero R, et al. Am J Obstet Gynecol, 2010 Jul 29. PMID 20673868.
Comprehensive analysis of common genetic variation in 61 genes related to steroid hormone and insulin-like growth factor-I metabolism and breast cancer risk in the NCI breast and prostate cancer cohort consortium. Canzian F, et al. Hum Mol Genet, 2010 Oct 1. PMID 20634197.
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