

**IRS-1 Antibody (S639)**  
**Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AE1018b**

**Specification**

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**IRS-1 Antibody (S639) - Product Information**

Application	WB, IF
Primary Accession	<a href="#">P35568</a>
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Concentration	1mg/ml
Isotype	Rabbit IgG
Calculated MW	131591

**IRS-1 Antibody (S639) - Additional Information**

**Gene ID** 3667

**Other Names**

Insulin receptor substrate 1, IRS-1, IRS1

**Target/Specificity**

The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.

**Dilution**

WB~~1:500~1:1000

IF~~1:100~200

**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**

IRS-1 Antibody (S639) is for research use only and not for use in diagnostic or therapeutic procedures.

**IRS-1 Antibody (S639) - Protein Information**

**Name** IRS1

**Function**

May mediate the control of various cellular processes by insulin. When phosphorylated by the

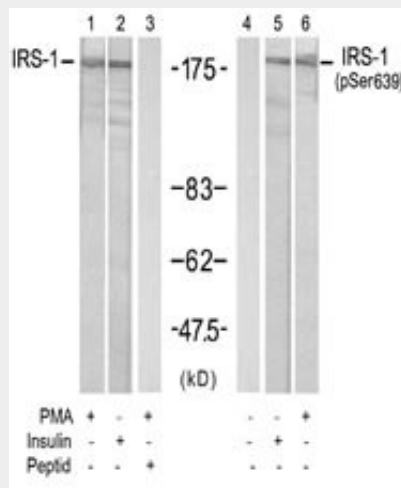
insulin receptor binds specifically to various cellular proteins containing SH2 domains such as phosphatidylinositol 3-kinase p85 subunit or GRB2. Activates phosphatidylinositol 3-kinase when bound to the regulatory p85 subunit (By similarity).

### IRS-1 Antibody (S639) - Protocols

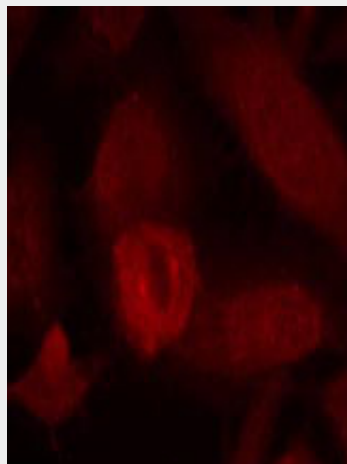
Provided below are standard protocols that you may find useful for product applications.

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

### IRS-1 Antibody (S639) - Images



Western blot analysis of extracts from 293 cells treated with PMA (100nM, 15min) or insulin(100nM, 30min) using IRS-1 Antibody (S639) (#AE1018b, Lane 1, 2 and 3) and Phospho-IRS-1-S639 Antibody (#AE1018d, Lane 4, 5 and 6).



Immunofluorescence staining of methanol-fixed HeLa cells using IRS-1 Antibody (S639) (#AE1018b, Red).

### **IRS-1 Antibody (S639) - 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.

### **IRS-1 Antibody (S639) - 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.

Variation at the NFATC2 Locus Increases the Risk of Thiazolidinedione-Induced Edema in the Diabetes REduction Assessment with ramipril and rosiglitazone Medication (DREAM) Study. Bailey SD, et al. *Diabetes Care*, 2010 Jul 13. PMID 20628086.

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