10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

IRS-1 Antibody (S636)

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AE1018a

Specification

IRS-1 Antibody (S636) - Product Information

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

IRS-1 Antibody (S636) - 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
IHC~~1:50~1:100
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 (S636) is for research use only and not for use in diagnostic or therapeutic procedures.

IRS-1 Antibody (S636) - Protein Information

Name IRS1

Function

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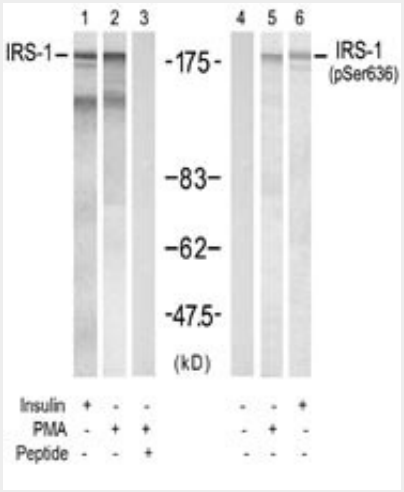
May mediate the control of various cellular processes by insulin. When phosphorylated by the insulin receptor binds specifically to various cellular proteins containing SH2 domains such as phosphatidylinositol 3-kinase p85 subunit or GRB2. Activates phosphatidylinositol 3-kinase when bound to the regulatory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

IRS-1 Antibody (S636) - Protocols

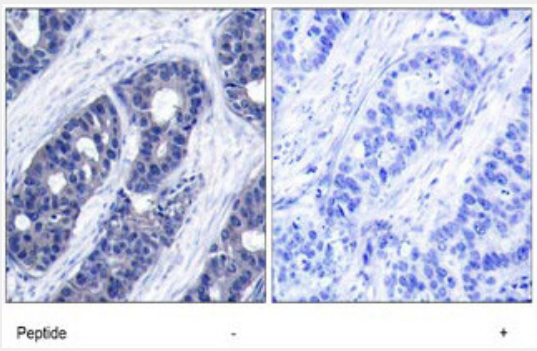
Provided below are standard protocols that you may find useful for product applications.

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

IRS-1 Antibody (S636) - Images

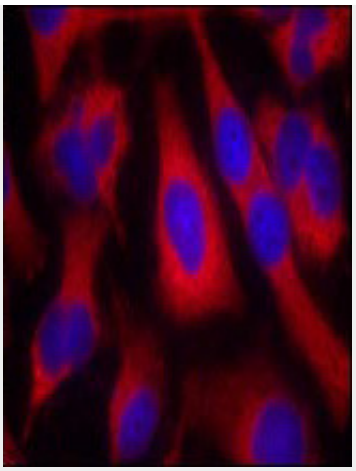


Western blot analysis of extracts from 293 cells treated with insulin(100nM, 30min) or PMA (0.2?M, 15min) using IRS-1 Antibody (S636) (#AE1018a, Lane 1, 2 and 3) and Phospho-IRS-1-S636 Antibody (#AE1018c, Lane 4, 5 and 6).



Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue, using IRS-1 Antibody (S636) (#AE1018a).

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Immunofluorescence staining of methanol-fixed HeLa cells using IRS-1 Antibody (S636) (#AE1018a,Red).

IRS-1 Antibody (S636) - 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 (S636) - 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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Physiogenomic analysis of statin-treated patients: domain-specific counter effects within the ACACB gene on low-density lipoprotein cholesterol? Rua□o G, et al. Pharmacogenomics, 2010 Jul. PMID 20602615.