

## Product datasheet for **TA319246**

### IRS1 Rabbit Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	WB
Recommended Dilution:	ELISA: 1:2,000 - 1:10,000, WB: 1:250 - 1:1,500, IHC: User Optimized
Reactivity:	Human
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	This affinity purified antibody was prepared from whole rabbit serum produced by repeated immunizations with a synthetic peptide corresponding to amino acids 298-316 of human IRS1 protein.
Formulation:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Concentration:	lot specific
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Gene Name:	insulin receptor substrate 1
Database Link:	<a href="#">NP_005535</a> <a href="#">Entrez Gene 3667 Human</a> <a href="#">P35568</a>
Synonyms:	HIRS-1
Note:	Insulin Receptor Substrate 1 (IRS1) acts as a signaling molecule for IL-4, insulin and insulin-like growth factor-I (IGF-I) receptors. When phosphorylated by the insulin receptor, IRS1 binds specifically to various cellular proteins containing SH2 domains such as phosphatidylinositol 3-kinase p85 subunit or GRB2. When bound, IRS1 typically activates phosphatidylinositol 3-kinase p85 subunit. IRS1 interacts with both the NPXY motif of tyrosine-phosphorylated IGF1R and the INSR through the PTB domain. Serine phosphorylation of IRS1 is a mechanism for insulin resistance. Ser-312 phosphorylation inhibits insulin action through disruption of IRS1 interaction with the

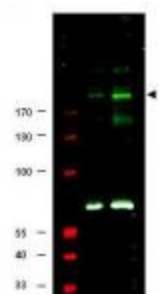


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**Protein Families:** Druggable Genome

**Protein Pathways:** Adipocytokine signaling pathway, Insulin signaling pathway, Neurotrophin signaling pathway, Type II diabetes mellitus

**Product images:**



WB using Anti-IRS1 pS307 antibody shows detection of a band at ~180 kDa believed to represent phosphorylated IRS1 (arrowhead). Lane 1 shows staining of human 293 cell lysate. Lane 2 shows staining of 293 cell lysate prepared from cells serum-starved for 18 h followed by treatment with 5 ug/ml of anisomycin for 30 min. The primary antibody diluted to 1:250. IRDye™800 conjugated Gt-a-Rabbit IgG [H&L] MX was used at 1:10000.