

Product datasheet for **TA354426**

IRS2 Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	Dot, WB
Recommended Dilution:	WB 0.1-1 µg/ml ELISA 0.01-0.1 µg/ml IP 2-5 µg/ml IHC 2-10 µg/ml FC 5-10 µg/ml
Reactivity:	Human, Rat, Mouse
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	A synthetic peptide corresponding to the epitope ASSPA with a single phosphorylation site Ser 731 of human IRS-2.
Formulation:	This affinity purified antibody is supplied in sterile Tris-buffered saline (pH7.2) containing antibody stabilizer.
Purification:	The Rabbit IgG is purified by site-modified Epitope Affinity Purification.
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	180 kDa
Gene Name:	insulin receptor substrate 2
Database Link:	NP_003740 Entrez Gene 29376 Rat Entrez Gene 384783 Mouse Entrez Gene 8660 Human Q9Y4H2



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Background:

Insulin Receptor Substrate-2 (IRS-2), a 180kDa cytoplasmic docking protein, is one of the major endogenous substrates of the insulin receptor kinase. The insulin receptor mediates insulin action through the phosphorylation of substrate proteins. The major substrates of the insulin receptor kinase are the insulin receptor substrate (IRS) family of proteins, IRS 1, IRS 2, IRS 3, and IRS 4. IRS 2, a signaling molecule that mediates effects of insulin, Insulin-like growth factor 1 and other cytokines by acting as a molecular adaptor between diverse receptor kinases and downstream effectors. IRS proteins contain more than 70 potential Ser / Thr phosphorylation sites for kinases like PKA (cAMP-dependent protein kinase), PKC, and MAPK. The phosphorylation of Ser / Thr residues of IRS proteins has a dual function, serving either for a positive or negative modulation of insulin signal transduction.

Synonyms:

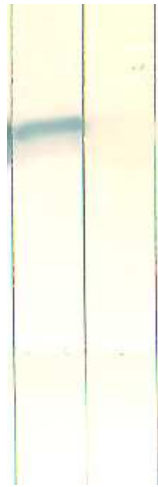
IRS-2

Protein Families:

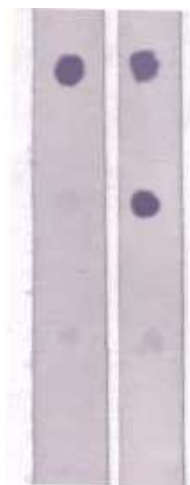
Druggable Genome

Protein Pathways:

Adipocytokine signaling pathway, Insulin signaling pathway, Neurotrophin signaling pathway, Type II diabetes mellitus

Product images:

WB: The cell lysate derived from conditioned 3T3 was immunoprecipitated by Rabbit anti-IRS-2 (pS731) antibody, then immunoprobed by the same antibody at 1:500 (lane 1). Lane 2 is a negative control.



DB: 1 ug peptide was blot onto NC membrane A:
IRS-2 (pS731) B: IRS-2 (non phosphorylated) C:
Non-related Phosphopeptide) Followed by rabbit
antibodies incubation at a 1:1000 dilution: 1:
Rabbit anti-IRS-2 (pS731) 2: Rabbit anti-IRS-2
(Paired S731)