

## IRS-1 (Phospho Ser302) rabbit pAb

Catalog No: YP1367

**Reactivity:** Human; Mouse

**Applications:** WB;IHC

Target: IRS-1

Fields: >>cGMP-PKG signaling pathway;>>FoxO signaling pathway;>>Autophagy -

animal;>>mTOR signaling pathway;>>PI3K-Akt signaling pathway;>>AMPK signaling pathway;>>Longevity regulating pathway;>>Longevity regulating pathway - multiple species;>>Neurotrophin signaling pathway;>>Insulin signaling

pathway;>>Adipocytokine signaling pathway;>>Regulation of lipolysis in

adipocytes;>>Type II diabetes mellitus;>>Insulin resistance;>>Non-alcoholic fatty liver disease;>>Growth hormone synthesis, secretion and action;>>Aldosterone-

regulated sodium reabsorption;>>Alzheimer disease;>>MicroRNAs in

cancer;>>Diabetic cardiomyopathy

Gene Name: IRS1

Protein Name: IRS-1 (Ser302)

Human Gene Id: 3667

**Human Swiss Prot** 

No:

Mouse Gene Id: 16367

**Mouse Swiss Prot** 

No:

Rat Gene ld: 25467

Rat Swiss Prot No: P35570

Immunogen: Synthesized phosho peptide around human IRS-1 (Ser302)

**Specificity:** This antibody detects endogenous levels of Human Mouse IRS-1 (phospho-

Ser302)

P35568

P35569



**Formulation :** Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Source: Polyclonal, Rabbit, IgG

**Dilution:** WB 1:500-2000;IHC 1:50-300

**Purification:** The antibody was affinity-purified from rabbit serum by affinity-chromatography

using specific immunogen.

Concentration: 1 mg/ml

Storage Stability: -15°C to -25°C/1 year(Do not lower than -25°C)

Observed Band: 170kD

Cell Pathway: Neurotrophin;Insulin\_Receptor;Adipocytokine;Type II diabetes

mellitus: Aldosterone-regulated sodium reabsorption:

**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. [provided by RefSeq, Nov 2009],

**Function:** disease:Polymorphisms in IRS1 may be involved in the etiology of non-insulin-

dependent diabetes mellitus (NIDDM) [MIM:125853].,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.,polymorphism:The Arg-971 polymorphism impairs the ability of insulin to stimulate glucose transport, glucose transporter translocation, and glycogen

synthesis by affecting the PI3K/AKT1/GSK3 signaling pathway. The

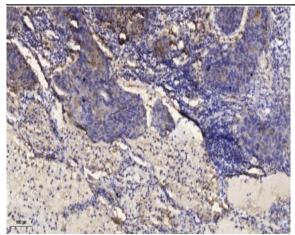
polymorphism at Arg-971 may contribute to the in vivo insulin resistance observed in carriers of this variant. Arg-971 could contribute to the risk for atherosclerotic

cardiovascular diseases associated with non-insulin-dependen

**Subcellular** nucleus,cytoplasm,cytosol,plasma membrane,insulin receptor complex,caveola,intracellular membrane-bounded organelle,

**Expression:** Epithelium, Eye, Skeletal muscle,

## **Products Images**



Immunohistochemical analysis of paraffin-embedded human Squamous cell carcinoma of lung. 1, Antibody was diluted at 1:200(4° overnight). 2, Tris-EDTA,pH9.0 was used for antigen retrieval. 3,Secondary antibody was diluted at 1:200(room temperature, 45min).