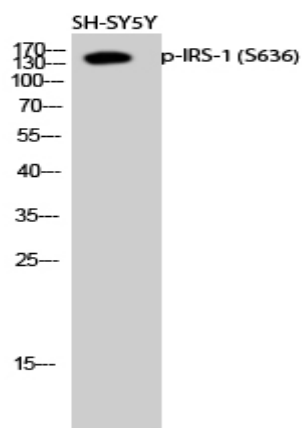


IRS-1 (phospho Ser636) Polyclonal Antibody

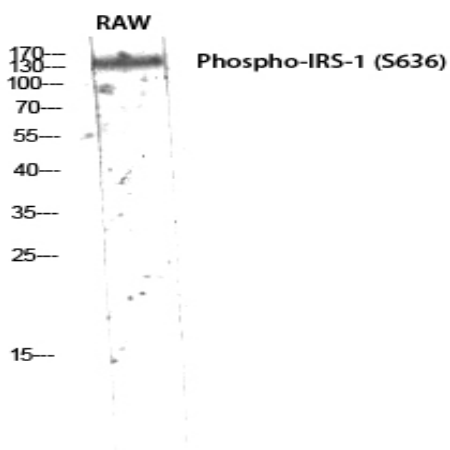
| | |
|------------------------------|---|
| Catalog No : | YP0148 |
| Reactivity : | Human;Mouse;Rat |
| Applications : | WB;IHC;IF;ELISA |
| Target : | IRS-1 |
| Fields : | >>cGMP-PKG signaling pathway;>>FoxO signaling pathway;>>Autophagy - animal;>>mTOR signaling pathway;>>PI3K-Akt signaling pathway;>>AMPK 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 : | Insulin receptor substrate 1 |
| Human Gene Id : | 3667 |
| Human Swiss Prot No : | P35568 |
| Mouse Gene Id : | 16367 |
| Mouse Swiss Prot No : | P35569 |
| Rat Gene Id : | 25467 |
| Rat Swiss Prot No : | P35570 |
| Immunogen : | The antiserum was produced against synthesized peptide derived from human IRS-1 around the phosphorylation site of Ser636. AA range:603-652 |
| Specificity : | Phospho-IRS-1 (S636) Polyclonal Antibody detects endogenous levels of IRS-1 protein only when phosphorylated at S636. |

| | |
|-------------------------------|--|
| Formulation : | Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide. |
| Source : | Polyclonal, Rabbit,IgG |
| Dilution : | WB 1:500 - 1:2000. IHC 1:100 - 1:300. IF 1:200 - 1:1000. ELISA: 1:20000. Not yet tested in other applications. |
| Purification : | The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-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 Location : | nucleus,cytoplasm,cytosol,plasma membrane,insulin receptor complex,caveola,intracellular membrane-bounded organelle, |
| Expression : | Epithelium,Eye,Skeletal muscle, |

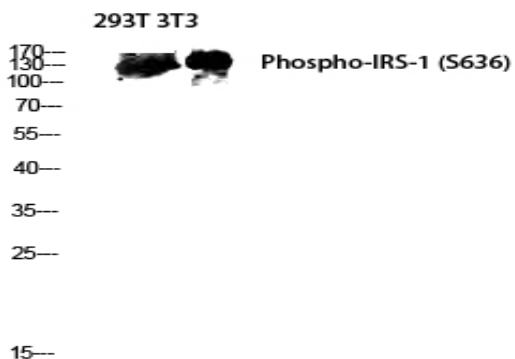
Products Images



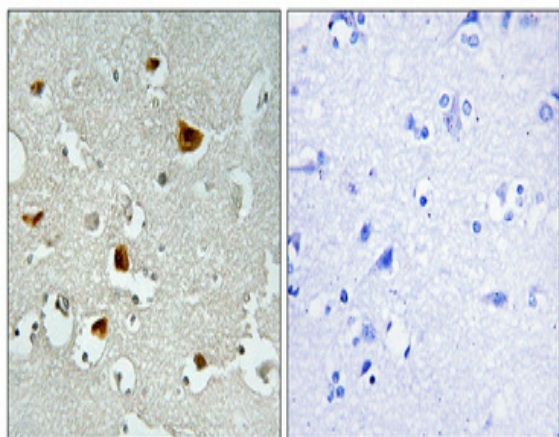
Western Blot analysis of SH-SY5Y cells using Phospho-IRS-1 (S636) Polyclonal Antibody diluted at 1:2000



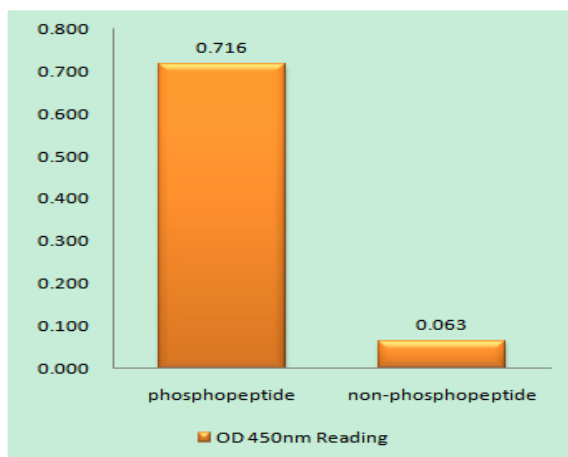
Western Blot analysis of RAW using Phospho-IRS-1 (S636) Polyclonal Antibody diluted at 1:2000



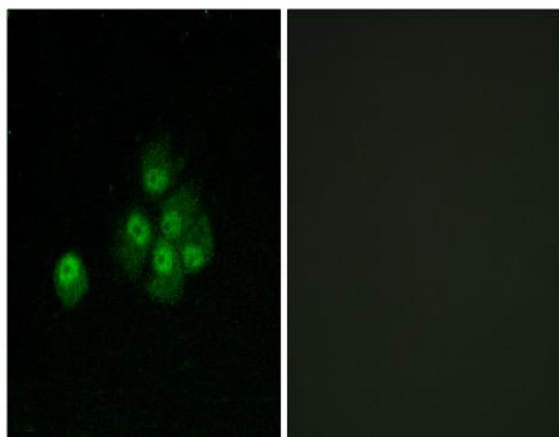
Western blot analysis of 293T 3T3 lysis using Phospho-IRS-1 (S636) antibody. Antibody was diluted at 1:2000



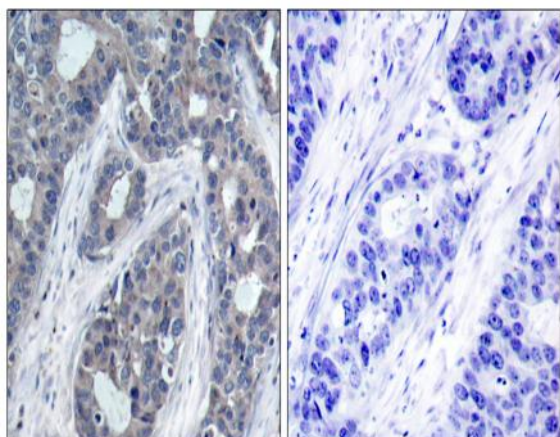
Immunohistochemical analysis of paraffin-embedded Human brain. Antibody was diluted at 1:100(4° overnight). High-pressure and temperature Tris-EDTA,pH8.0 was used for antigen retrieval. Negative control (right) obtained from antibody was pre-absorbed by immunogen peptide.



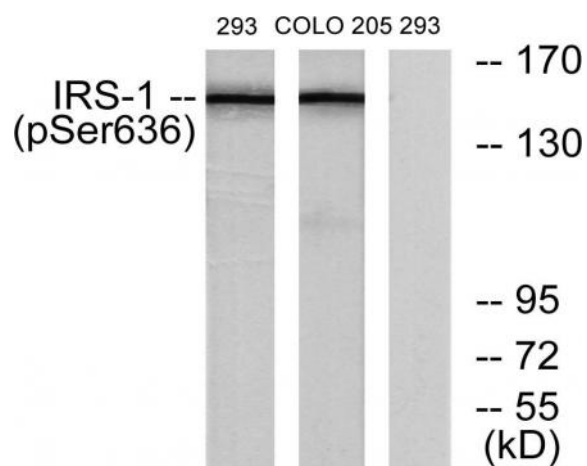
Enzyme-Linked Immunosorbent Assay (Phospho-ELISA) for Immunogen Phosphopeptide (Phospho-left) and Non-Phosphopeptide (Phospho-right), using IRS-1 (Phospho-Ser636) Antibody



Immunofluorescence analysis of MCF7 cells, using IRS-1 (Phospho-Ser636) Antibody. The picture on the right is blocked with the phospho peptide.



Immunohistochemistry analysis of paraffin-embedded human breast carcinoma, using IRS-1 (Phospho-Ser636) Antibody. The picture on the right is blocked with the phospho peptide.



Western blot analysis of lysates from 293 cells and COLO205 cells, using IRS-1 (Phospho-Ser636) Antibody. The lane on the right is blocked with the phospho peptide.