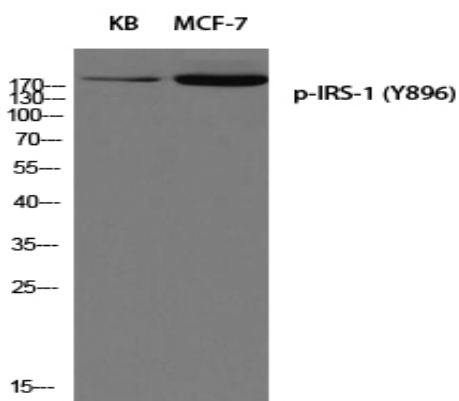


IRS-1 (phospho Tyr896) Polyclonal Antibody

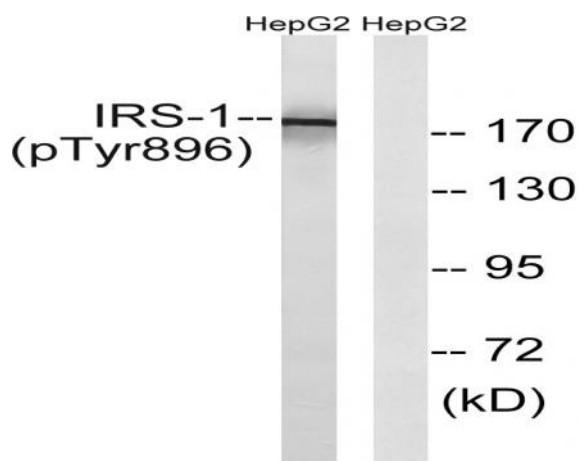
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|------------------------------|---|
| Catalog No : | YP0445 |
| Reactivity : | Human;Mouse;Rat |
| Applications : | WB;IHC |
| Target : | IRS-1 |
| Fields : | >>cGMP-PKG signaling pathway;>>FoxO signaling pathway;>>Autophagy - animal;>>mTOR signaling 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 : | 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 Tyr896. AA range:862-911 |
| Specificity : | Phospho-IRS-1 (Y896) Polyclonal Antibody detects endogenous levels of IRS-1 protein only when phosphorylated at Y896. |

| | |
|-------------------------------|--|
| 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 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, |

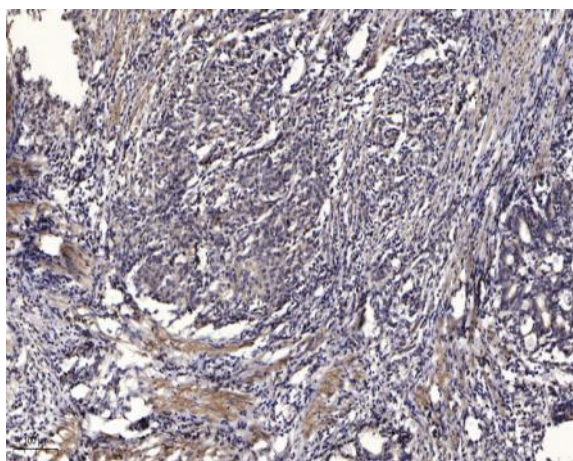
Products Images



Western blot analysis of KB MCF-7 using p-IRS-1 (Y896) antibody. Antibody was diluted at 1:500



Western blot analysis of lysates from HepG2 cells treated with Na₃VO₄ 0.3mM 40', using IRS-1 (Phospho-Tyr896) Antibody. The lane on the right is blocked with the phospho peptide.



Immunohistochemical analysis of paraffin-embedded human Gastric adenocarcinoma. 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).