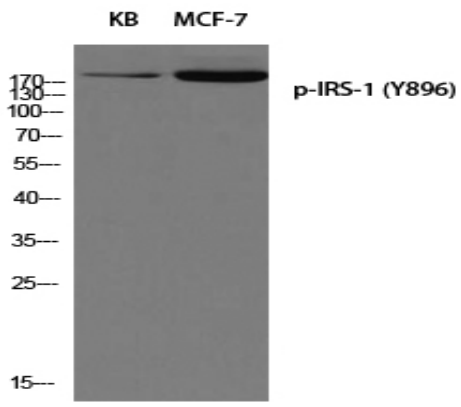
Best Tools for immunology Research

IRS-1 (phospho Tyr896) Polyclonal Antibody

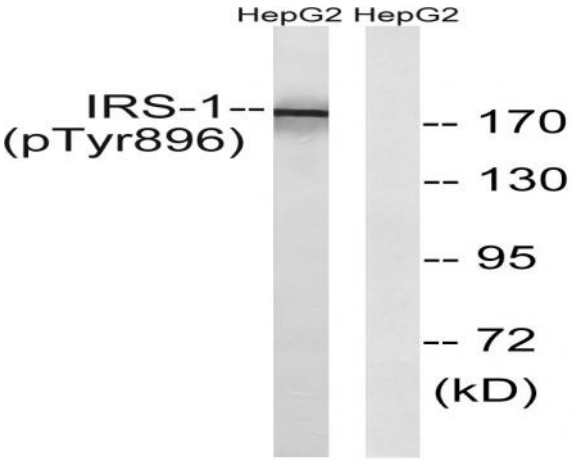
Catalog No :	YP0445
Reactivity :	Human;Mouse;Rat
Applications :	WB;IHC
Target :	IRS-1
Fields :	>>cGMP-PKG signaling pathway;>>FoxO signaling pathway;>>Autophagy - animal;>>mTOR signaling pathway;>>PI3K-Akt signaling pathway;>>AMPK signaling pathway;>>Longevity regulating pathway;>>Longevity regulating 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,
Tag :	orthogonal,hot
Sort :	8692
No4 :	1

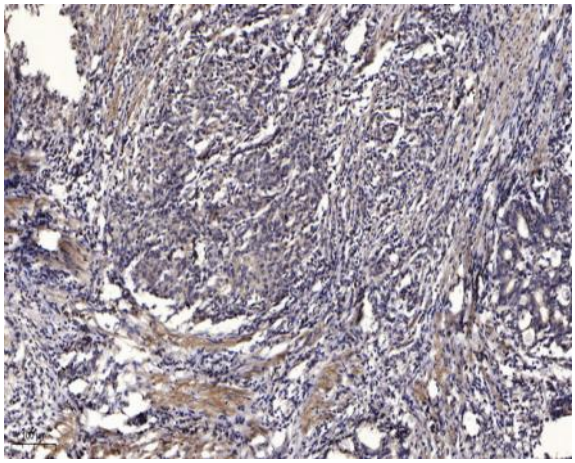
Products Images



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).