



IRS-1 (phospho Ser636) Polyclonal Antibody

Catalog No	YP-Ab-03525
Isotype	IgG
Reactivity	Human;Mouse;Rat
Applications	WB;IHC;IF;ELISA
Gene Name	IRS1
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
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300. Immunofluorescence: 1/200 - 1/1000. ELISA: 1/20000. Not yet tested in other applications.
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	HIRS 1;insulin receptor substrate 1;IRS 1;IRS-1;IRS1
Observed Band	170kD
Calculated Molecular Weight	170kD
Cell Pathway	nucleus,cytoplasm,cytosol,plasma membrane,insulin receptor complex,caveola, intracellular membrane-bounded organelle,
Tissue Specificity	Epithelium,Eye,Skeletal muscle,
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

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],

matters needing attention

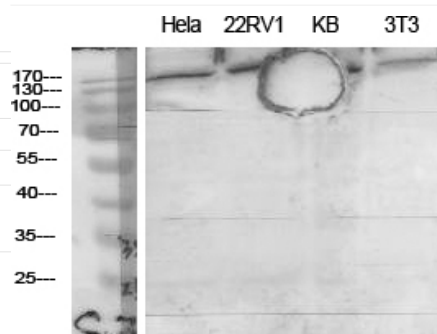
Avoid repeated freezing and thawing!

Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

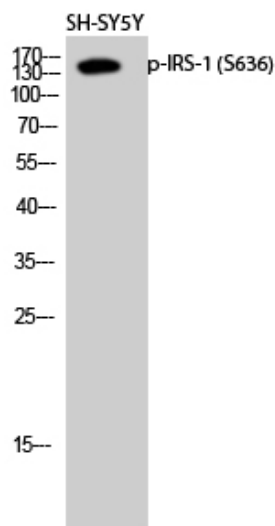


Products Images



Phospho-IRS-1 (S636)

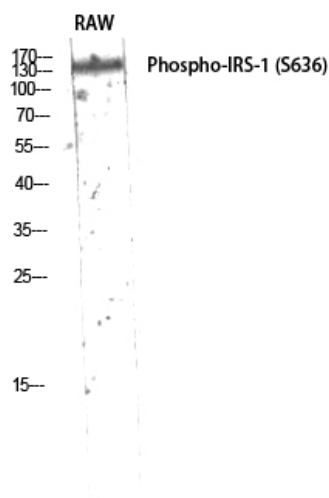
Western Blot analysis of various cells using Phospho-IRS-1 (S636) Polyclonal Antibody diluted at 1:2000



SH-SY5Y

p-IRS-1 (S636)

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



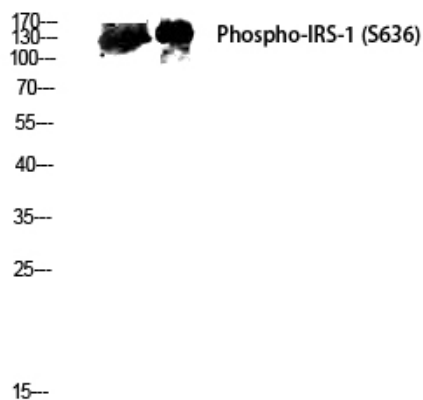
RAW

Phospho-IRS-1 (S636)

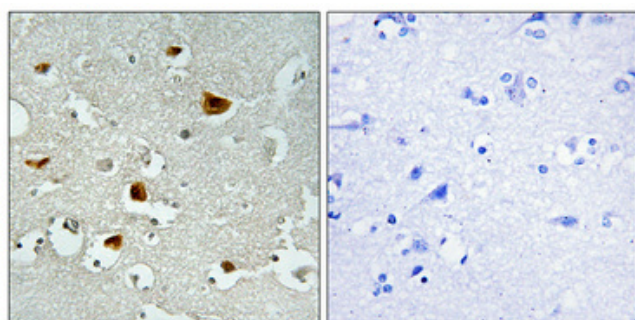
Western Blot analysis of RAW using Phospho-IRS-1 (S636) Polyclonal Antibody diluted at 1:2000



293T 3T3



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, pH 8.0 was used for antigen retrieval. Negative control (right) obtained from antibody was pre-absorbed by immunogen peptide.