

IRS1 antibody

Catalog No: #38112

Package Size: #38112-1 50ul #38112-2 100ul

Orders: order@signalwayantibody.comSupport: tech@signalwayantibody.com

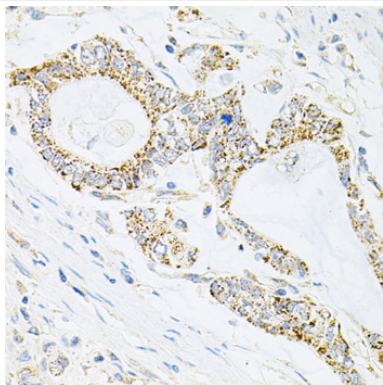
Description

Product Name	IRS1 antibody
Host Species	Rabbit
Clonality	Polyclonal
Purification	Antibodies were purified by affinity purification using immunogen.
Applications	WB,IHC,IF
Species Reactivity	Human,Mouse,Rat
Specificity	The antibody detects endogenous level of total IRS1 protein.
Immunogen Type	Recombinant Protein
Immunogen Description	Recombinant protein of human IRS1.
Target Name	IRS1
Other Names	IRS1;HIRS-1;
Accession No.	Swiss-Prot#: P35568NCBI Gene ID: 3667
SDS-PAGE MW	132kd
Concentration	1.0mg/ml
Formulation	Supplied at 1.0mg/mL in phosphate buffered saline (without Mg ²⁺ and Ca ²⁺), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Storage	Store at -20°C

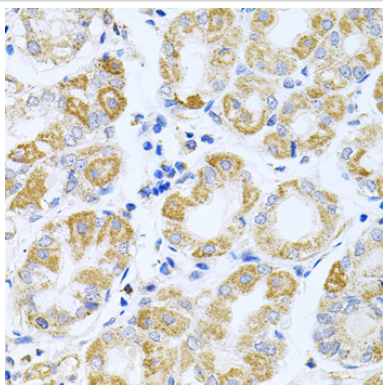
Application Details

WB□1:500 - 1:1000IHC□1:50 - 1:100IF□1:50 - 1:100

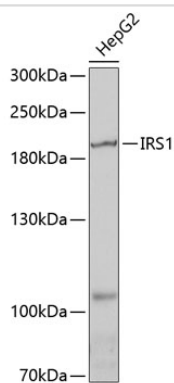
Images



Immunohistochemistry of paraffin-embedded human gastric cancer using IRS1 antibody at dilution of 1:100 (40x lens).



Immunohistochemistry of paraffin-embedded human stomach using IRS1 antibody at dilution of 1:100 (40x lens).



Western blot analysis of extracts of HepG2 cells, using IRS1 antibody at 1:1000 dilution.

Background

Insulin receptor substrate 1 (IRS-1) is one of the major substrates of the insulin receptor kinase (1). IRS-1 contains multiple tyrosine phosphorylation motifs that serve as docking sites for SH2-domain containing proteins that mediate the metabolic and growth-promoting functions of insulin (2-4). IRS-1 also contains over 30 potential serine/threonine phosphorylation sites. Ser307 of IRS-1 is phosphorylated by JNK (5) and IKK (6) while Ser789 is phosphorylated by SIK-2, a member of the AMPK family (7). The PKC and mTOR pathways mediate phosphorylation of IRS-1 at Ser612 and Ser636/639, respectively (8,9). Phosphorylation of IRS-1 at Ser1101 is mediated by PKC θ and results in an inhibition of insulin signaling in the cell, suggesting a potential mechanism for insulin resistance in some models of obesity (10).

Published Papers

el et al., Alleviative effects of α -lipoic acid on muscle atrophy via the modulation of TNF- α /JNK and PI3K/AKT pathways in high-fat diet and streptozotocin-induced type 2 diabetic rats. *In Food Sci Nutr* 2023 Jan 12; by Chih-Yuan Ko 1 2 3, Chi-Hao Wu et al.. PMID: 37051351, (2023)
[PMID:37051351](#)

el et al., Effects of periodontitis on aortic insulin resistance in an obese rat model. *In Lab Invest* 2010 Mar; by Daisuke Ekuni, Takaaki Tomofuji, et al.. PMID: 20065945, (2010)
[PMID:20065945](#)

Note: This product is for in vitro research use only and is not intended for use in humans or animals.