Product Datasheet

IRS-1(Phospho-Ser312) Antibody

Catalog No: #11143

Package Size: #11143-1 50ul #11143-2 100ul

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

Description

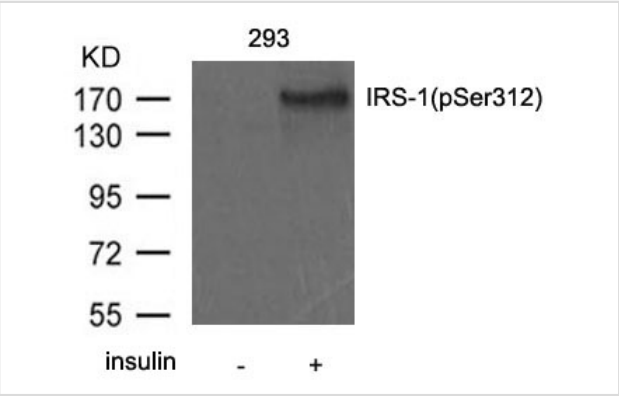
Product Name	IRS-1(Phospho-Ser312) Antibody
Host Species	Rabbit
Clonality	Polyclonal
Purification	Antibodies were produced by immunizing rabbits with synthetic peptide and KLH conjugates. Antibodies were purified by affinity-chromatography using epitope-specific peptide.
Applications	WB
Species Reactivity	Human;Mouse;Rat
Specificity	The antibody detects endogenous levels of IRS-1 only when phosphorylated at serine 312.
Immunogen Type	Peptide-KLH
Immunogen Description	Peptide sequence around phosphorylation site of serine 312 (A-T-S(p)-P-A) derived from Human IRS-1.
Conjugates	Unconjugated
Target Name	IRS-1
Modification	Phospho
Other Names	HIRS-1; IRS1; Insulin receptor substrate 1
Accession No.	Swiss-Prot: P35568 NCBI Protein: NP_005535.1
Concentration	1.0mg/ml
Formulation	Supplied at 1.0mg/mL in phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Storage	Store at -20°C for long term preservation (recommended). Store at 4°C for short term use.

Application Details

Predicted MW: 180kd

Western blotting: 1:500~1:1000

Images



Western blot analysis of extract from 293 cells untreated or treated with insulin using IRS-1(Phospho-Ser312) antibody #11143.

Background

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

Tzatsos A, et al. (2006) Mol Cell Biol; 26(1): 63-76
Ozes ON, et al. (2001) Proc Natl Acad Sci U S A; 98(8): 4640-4645
Szanto I, et al. (2000) Proc Natl Acad Sci U S A; 97(5): 2355-2360
Ozes ON, et al. (2001) Proc Natl Acad Sci U S A; 98(8): 4640-4645

Published Papers

el at., Liraglutide Ameliorates HyperhomocysteInemia-Induced Alzheimer-Like Pathology and Memory Deficits in Rats via Multi-molecular TargetIng. In Neurosci Bull on 2019 Jan 10 by Zhang Y, Xie JZ, et al..PMID: 30632006, , (2019)

PMID:30632006

Chao Zhu;Junru Zhu;Quyu Duan;Yue Jiang;Hao Yin;Yonglong He;Fu Li;XiaoPeng An el at., Exploration of the lactation function of protein phosphorylation sites in goat mammary tissues by phosphoproteome analysis, , (2021)

PMID:34583635

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