Product Datasheet

IRS-1 Antibody

Catalog No: #21223

Package Size: #21223-1 50ul #21223-2 100ul

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

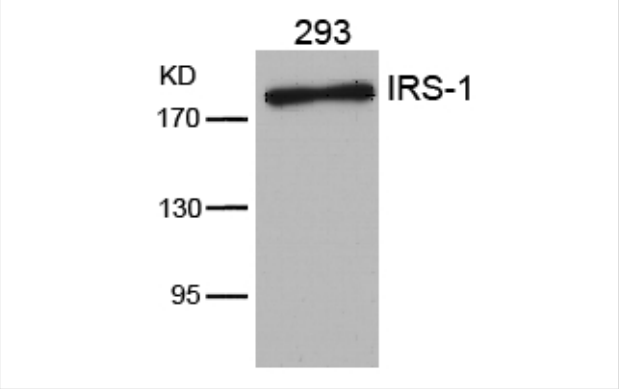
Description

Product Name	IRS-1 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 IHC IF
Species Reactivity	Human;Mouse;Rat
Specificity	The antibody detects endogenous level of total IRS-1 protein.
Immunogen Type	Recombinant protein
Immunogen Description	Recombinant fusion protein containing a sequence corresponding to amino acids 1043-1242 of human IRS1.
Conjugates	Unconjugated
Target Name	IRS-1
Other Names	IRS-1; IRS1;
Accession No.	Swiss-Prot: P35568NCBI Protein: NP_005535.1
Calculated MW	132kDa
SDS-PAGE MW	180kDa
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.

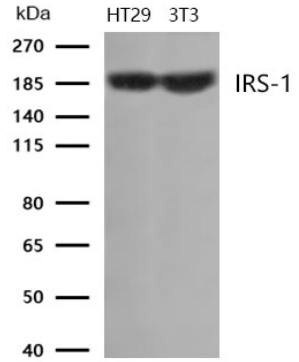
Application Details

WB 1:500-2000; IHC 1:50-300; IF 1:50-300;

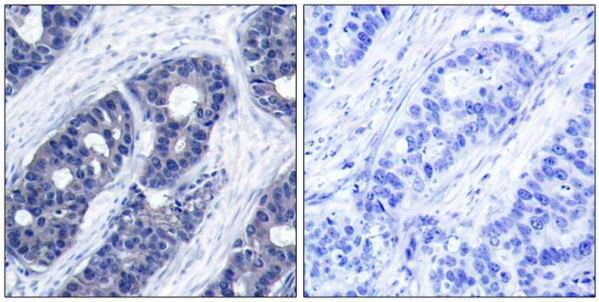
Images



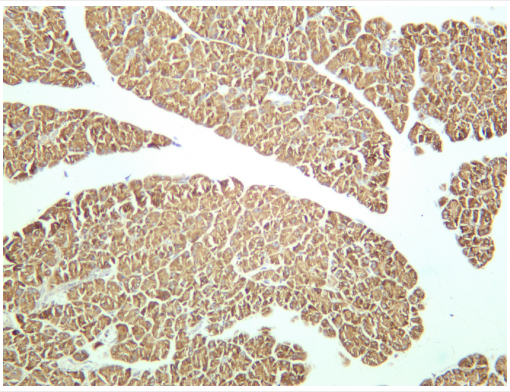
Western blot analysis of extracts from 293 cells using IRS-1 Antibody.



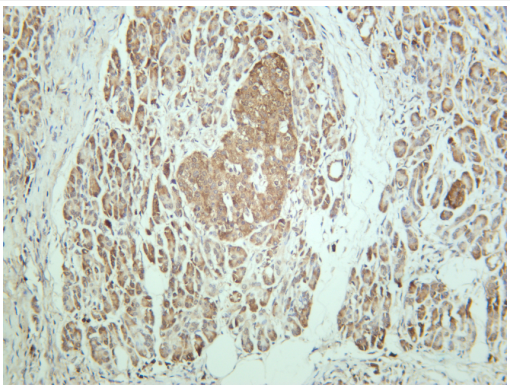
Western blot analysis of extracts from HT29 and 3T3 cells using IRS-1 Antibody.



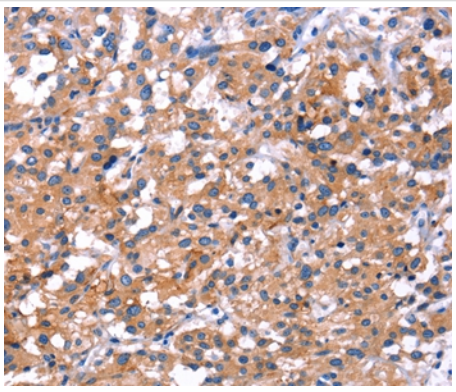
Immunohistochemical analysis of paraffin-embedded Human breast carcinoma tissue using IRS-1 Antibody(left) or the same antibody preincubated with blocking peptide(right).



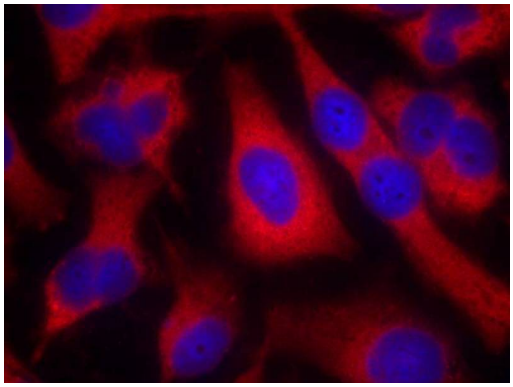
Immunohistochemical analysis of paraffin-embedded Rat pancreas tissue using IRS-1 Antibody.



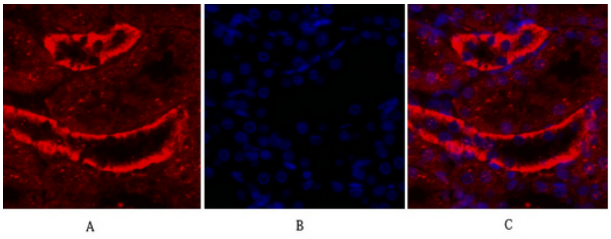
Immunohistochemical analysis of paraffin-embedded Human pancreas tissue using IRS-1 Antibody.



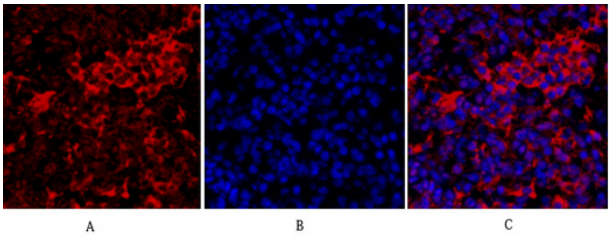
Immunohistochemical analysis of paraffin-embedded Human thyroid cancer tissue using IRS-1 Antibody.



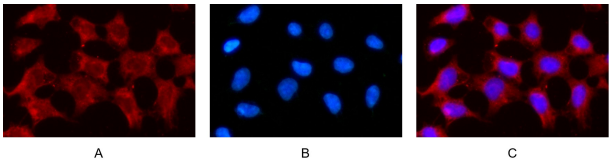
Immunofluorescence staining of methanol-fixed Hela cells using IRS-1 Antibody.Blue: DAPI for nuclear staining.



Immunofluorescence analysis of Rat kidney tissue using IRS-1 Antibody.Picture A: Target (red). Picture B: DAPI (blue). Picture C: Merge of A+B



Immunofluorescence analysis of Mouse lung tissue using IRS-1 Antibody.Picture A: Target (red). Picture B: DAPI (blue). Picture C: Merge of A+B



Immunofluorescence analysis of HEK293 cells using IRS-1 Antibody.Picture A: Target (red). Picture B: DAPI (blue). Picture C: Merge of A+B

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

Ozes ON, et al. (2001) Proc Natl Acad Sci U S A; 98(8): 4640-4645

Tzatsos A, et al. (2006) Mol Cell Biol; 26(1): 63-76

Kadowaki T, et al. (2000) J Clin Invest; 106(4): 459-465

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

Published Papers

el at., The role of mitochondrial oxidative stress in the metabolic alterations in diet-induced obesity in rats. In FASEB J on 2019 Nov by Mar n-Royo G, Rodr guez C, et al..PMID:31370681, , (2019)

PMID:31370681

el at., A Preliminary Investigation of the Mechanisms Underlying the Effect of Berberine in Preventing High-Fat Diet-Induced Insulin Resistance in Rats.In J Physiol Pharmacol on 2012 Oct by J-J Gu, F-Y Gao, et al..PMID:23211304, , (2012)

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el at., Metabolic inflammation exacerbates dopaminergic neuronal degeneration in response to acute MPTP challenge in type 2 diabetes mice.In Exp Neurol.On 2014 Jan by Wang L, Zhai YQ et al..PMID:24220636, , (2014)

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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

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