Product Datasheet

IRS-2 Antibody

Catalog No: #48310

Package Size: #48310-1 50ul #48310-2 100ul

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

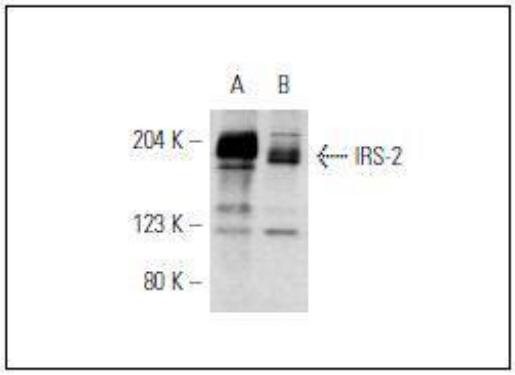
Description

Product Name	IRS-2 Antibody
Host Species	Rabbit
Clonality	Polyclonal
Purification	Immunogen affinity purified
Applications	WB, IP, IF
Species Reactivity	Hu, Ms, Rt
Immunogen Description	Amino acids 926-1130 of IRS-2 of human origin.
Other Names	Insulin receptor substrate 2 antibody IRS 2 antibody IRS-2 antibody Irs2 antibody IRS2_HUMAN antibody
Accession No.	Swiss-Prot#:Q9Y4H2
Uniprot	Q9Y4H2
GeneID	8660;
Calculated MW	165-185kDa
Formulation	1*TBS (pH7.4), 1%BSA, 40%Glycerol. Preservative: 0.05% Sodium Azide.
Storage	Store at -20°C

Application Details

WB: 1:100-1:1,000IP: 1-2 μg per 100-500 μg of total protein (1 ml of cell lysate)

Images



Western blot analysis of IRS-2 expression in HeLa (A) and 3T3-L1 (B) whole cell lysates.

Background

IRS-2, originally described as 4PS, acts as a signaling intermediate downstream of the Insulin, IGF-1, IL-4, IL-9 and IL-13 receptors. In IRS-2-deficient mice, reduction in total PI 3-kinase activity by 30% and abolition of downstream activation of protein kinase C (PKC) ζ leads to the development of type 2 diabetes. Additionally, reconstitution with retroviral IRS-2 restores IRS-2/PI 3-kinase/PKC ζ signalling as well as glucose uptake. IRS-2 translocates to the nuclei of mouse embryo fibroblasts expressing the Insulin-like growth factor 1 receptor. Various mutations in the IGF-IR can result in an abrogation of or decrease in the translocation of IRS proteins to the nucleoli. IRS-2 is responsible for mitogen-activated protein kinase (MAPK) and protein kinase B (PKB) activation by Insulin and is the major adapter molecule linking the Insulin receptor to this step.

References

Note: This product is for in vitro research use only