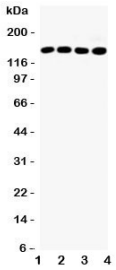
IRS-1 Antibody (R31393)

Catalog No.	Formulation	Size
R31393	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity
Buffer	Lyophilized from 1X PBS with 2.5% BSA and 0.025% sodium azide/thimerosal
UniProt	P35569
Applications	Western Blot : 0.5-1ug/ml
Limitations	This IRS1 antibody is available for research use only.



Western blot testing of IRS-1 antibody and Lane 1: HeLa; 2: A549; 3: 293T; 4: MCF-7 lysate, Expected size: 132~185KD depending on serine phosphorylation level

Description

Insulin receptor substrate 1 is a signalling adapter protein that in humans is encoded by the IRS1 gene. This gene exhibited no intrinsic enzyme activity, and it can serve as a docking protein involved in binding and activating other signal transduction molecules after being phosphorylated on tyrosine by insulin receptor kinase. IRS-1 plays a key role in transmitting signals from the insulin and insulin-like growth factor-1 (IGF-1) receptors to intracellular pathways PI3K/Akt and Erk MAP kinase pathways. It also plays important biological function for both metabolic and mitogenic (growth promoting) pathways. In addition to those, IRS-1 is a key regulator of PI3K within malignant cells.

For broader IRS1 validation across multiple tissues, cell lines, and applications, see our IRS1 Antibody 10I3 / Insulin Receptor Substrate 1 Monoclonal Antibody page.

Application Notes

The stated application concentrations are suggested starting amounts. Titration of the IRS-1 antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

An amino acid sequence from the N-terminus of mouse Insulin receptor substrate 1 (WYQALLQLHNRAKAHHD) was used as the immunogen for this IRS-1 antibody (100% rat homology).

Storage

After reconstitution, the IRS-1 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.

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