

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 |
| 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.

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 4°C. For long-term, aliquot and store at -20°C. Avoid repeated freezing and thawing.