

Datasheet for ABIN6990544
anti-IRS1 antibody (AA 910-960)



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Overview

Quantity:	0.1 mg
Target:	IRS1
Binding Specificity:	AA 910-960
Reactivity:	Human, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This IRS1 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunofluorescence (IF), Immunocytochemistry (ICC)

Product Details

Immunogen:	IRS-1 antibody was raised against a 16 amino acid synthetic peptide from near the center of human IRS-1. The immunogen is located within amino acids 910 - 960 of IRS-1.
Isotype:	IgG
Purification:	IRS-1 Antibody is affinity chromatography purified via peptide column.

Target Details

Target:	IRS1
Alternative Name:	IRS-1 (IRS1 Products)
Background:	IRS-1 Antibody: Following tyrosine phosphorylation, the insulin receptor substrate 1 and 2 (IRS-1 and IRS-2) can form a protein scaffolding for the assembly of a host of Src homology 2 (SH2) domain-containing proteins. IRS-1 tyrosine phosphorylation can occur through the activity of

Target Details

several cytokine and growth factor receptors such as interleukin (IL)-4, IL-9, interferon-gamma, in addition to the insulin and insulin-like growth factor 1 receptors. The scaffolding provided by IRS-1 and IRS-2 is necessary for insulin signal transduction across the cell membrane. IRS-1 tyrosine phosphorylation, and thus formation of the IRS scaffolding is inhibited by tumor necrosis factor (TNF), and this inhibition can itself be blocked by rapamycin, an inhibitor of the mammalian target of rapamycin (TOR). TNF activity could also be blocked by inhibition of the Akt kinase and the PTEN tumor suppressor, suggesting that TNF impairs insulin signaling through IRS-1 by activation of the TOR signaling pathway.

Gene ID: 3667

UniProt: [P35568](#)

Pathways: [Fc-epsilon Receptor Signaling Pathway](#), [EGFR Signaling Pathway](#), [Neurotrophin Signaling Pathway](#), [Positive Regulation of Peptide Hormone Secretion](#), [Hormone Transport](#), [Negative Regulation of Hormone Secretion](#), [Response to Growth Hormone Stimulus](#), [Carbohydrate Homeostasis](#), [Regulation of Carbohydrate Metabolic Process](#)

Application Details

Application Notes: IRS-1 antibody can be used for the detection of IRS-1 by Western blot at 1 - 4 µg/mL. Antibody can also be used for immunocytochemistry starting at 2 µg/mL. For immunofluorescence start at 2 µg/mL.

Antibody validated: Western Blot in human samples, Immunocytochemistry in mouse samples and Immunofluorescence in mouse samples. All other applications and species not yet tested.

Restrictions: For Research Use only

Handling

Format: Liquid

Concentration: 1 mg/mL

Buffer: IRS-1 Antibody is supplied in PBS containing 0.02 % sodium azide.

Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Storage: -20 °C, 4 °C

Handling

Storage Comment: IRS-1 antibody can be stored at 4°C for three months and -20°C, stable for up to one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.