

IRS-1 (Phospho-Ser307) polyclonal antibody

Catalog: BS4104

Host: Rabbit

Reactivity: Human

BackGround:

Insulin receptor substrate 1 (IRS-1) is one of the major substrates of the insulin receptor kinase. IRS-1 contains multiple tyrosine phosphorylation motifs that serve as docking sites for SH2-domain containing proteins that mediate the metabolic and growth-promoting functions of insulin. IRS-1 also contains over 30 potential serine/threonine phosphorylation sites. Ser307 of IRS-1 is phosphorylated by JNK and IKK while Ser789 is phosphorylated by SIK-2, a member of the AMPK family. The PKC and mTOR pathways mediate phosphorylation of IRS-1 at Ser612 and Ser636/639, respectively. Phosphorylation of IRS-1 at Ser1101 is mediated by PKC θ and results in an inhibition of insulin signaling in the cell, suggesting a potential mechanism for insulin resistance in some models of obesity.

Product:

Rabbit IgG, 1mg/ml in PBS with 0.02% sodium azide, 50% glycerol, pH7.2.

Molecular Weight:

~ 160 kDa

Swiss-Prot:

P35568

Purification&Purity:

The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen and the purity is > 95% (by SDS-PAGE).

Applications:

WB: 1:1000~1:2000

Storage&Stability:

Store at 4 °C short term. Aliquot and store at -20 °C long term. Avoid freeze-thaw cycles.

Specificity:

IRS-1 (Phospho-Ser307) polyclonal antibody detects endogenous levels of IRS-1 protein only when phosphorylated at Ser307.

DATA:



Western blot (WB) analysis of IRS-1 (Phospho-Ser307) polyclonal antibody at 1:1000 dilution

Lane1:MCF-7 treated with λ -phosphatase whole cell lysate(30ug)

Lane2:MCF-7 whole cell lysate(30ug)

Note:

For research use only, not for use in diagnostic procedure.

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