

**IRS-1 (phospho-S312) polyclonal antibody**

Catalog: BCP00983

Host: Rabbit

Reactivity: Human

**BackGround:**

IRS-1, a major substrate of the insulin receptor, is phosphorylated in response to stimulation of cells by insulin, insulin-like growth factor 1 (IGF-1) and interleukin 4 (IL-4). IRS-1 is phosphorylated on serine, threonine and tyrosine residues in a variety of tissues. An insulin-sensitive serine/threonine kinase casein kinase II mediates a portion of the insulin-stimulated serine/threonine phosphorylation of overexpressed IRS-1 in vivo. Thr 502 is identified as the major casein kinase II-catalyzed phosphorylation site in rat IRS-1, and Ser 99 is an additional phosphorylation site catalyzed by casein kinase II. Thus, casein kinase II-catalyzed phosphorylation of IRS-1 may be a component of the intracellular insulin signaling cascade. IRS-1 contains three putative binding sites for 14-3-3 (Ser 270, Ser 374 and Ser 641) and the motif around Ser 270 is located in the phosphotyrosine binding domain of IRS-1, which is responsible for the interaction with the insulin receptor.

**Product:**

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

**Molecular Weight:**

~ 132, 180 kDa

**Swiss-Prot:**

P35568

**Purification&Purity:**

The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific im-

munogen and the purity is > 95% (by SDS-PAGE).

**Applications:**

WB: 1:500~1:1000

**Storage&Stability:**

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

**Specificity:**

p-IRS-1 (S312) polyclonal antibody detects endogenous levels of IRS-1 protein only when phosphorylated at Ser312.

**DATA:**

Western blot (WB) analysis of p-IRS-1 (S312) pAb at 1:500 dilution

Lane1:PC3 whole cell lysate(40ug)

Lane2:SGC7901 whole cell lysate(40ug)

Lane3:MCF-71 whole cell lysate(40ug)

**Note:**

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