

# PRODUCT DATA SHEET

Bioworld Biotech Co., Ltd

# 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 PKCθ 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

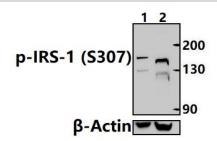
## Storage&Stability:

Store at  $4 \,\mathrm{C}$  short term. Aliquot and store at  $-20 \,\mathrm{C}$  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  $\lambda$ -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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