

IRS-1 Polyclonal Antibody

CATALOG #:	3424-100
AMOUNT:	100 µg
LOT #:	_____
HOST:	Rabbit
IMMUNOGEN:	Synthetic peptide surrounding amino acid 1224 of human IRS-1 (ID# BV-D41G)
SPECIES REACTIVITY:	Human, Mouse, Rat, Monkey, Horse, Dog, Pig

FORMULATION:

100 µg (0.5 mg/ml) purified rabbit polyclonal antibody in phosphate-buffered saline (PBS) containing 30% glycerol, 0.5% BSA and 0.01% thimerosal.

STORAGE CONDITIONS:

Store at -20°C. For long term storage, aliquot and freeze at -70°C. Avoid repeated freeze/thaw cycles.

BACKGROUND:

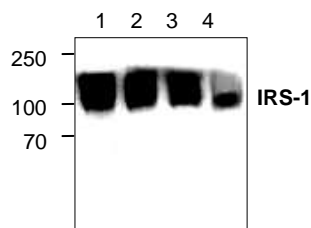
IRS-1 (Insulin receptor substrate-1) is phosphorylated in response to stimulation of cells by insulin. Upon ligand-induced phosphorylation, IRS-1 immediately associates with a series of SH2 domain-containing signaling intermediates such as PI3-kinase, GRB2, Syp and Nck. The level of diversity in structure and function of the SH2-containing proteins which binds activated IRS-1 is important for responsiveness to insulin. IRS phosphorylation elicits the growth and metabolic effects of insulin growth factors and insulin by allowing glucose uptake, glycogen synthesis and mitogenic activity. IRS-1 migrates between 170 and 185 kDa and is expressed in most cell types.

SPECIFICITY:

The antibody recognizes 175 kDa of IRS-1 in samples of human, mouse, and rat origins. It does not cross-react with IRS-2, -3, and -4. Other species have not been determined.

APPLICATION:

The antibody can be used in Western blotting (0.5-4 µg/ml). However, the optimal conditions should be determined individually. Blocking peptide (Cat# 3424BP-50) is available separately.

**Cat.#: 3424-100**

Western blot analysis of IRS-1 expression using lysates from Jurkat cells (Lane 1 & 2), 3T3 cells (Lane 3) and rat kidney (Lane 4).

FOR RESEARCH USE ONLY! Not to be used on humans.

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Growth Factors and Cytokines

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