

IRS-1 (phospho-Y612) polyclonal antibody

Catalog: BS4257

Host: Rabbit

Reactivity: Human, Mouse, Rat

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:

~ 180 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: 1:500~1:1000

IHC: 1:50~1:200

Storage&Stability:

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

Specificity:

p-IRS-1 (S612) polyclonal antibody detects endogenous levels of IRS-1 protein only when phosphorylated at tyrosine612.

DATA:



Western blot (WB) analysis of p-IRS-1 (S612) pAb at 1:500 dilution

Lane1:MCF-7 whole cell lysate(40ug)

Lane2:HEK293T whole cell lysate(40ug)

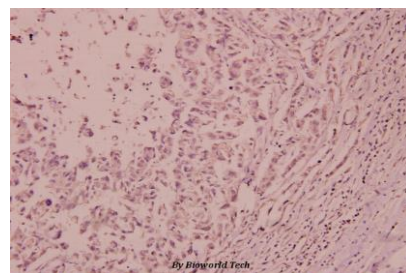
Lane3:A375 whole cell lysate(40ug)

Lane4:A2780 whole cell lysate(40ug)

Lane5:Hela whole cell lysate(40ug)

Lane6:C6 whole cell lysate(40ug)

Lane7:NIH-3T3 whole cell lysate(40ug)



Immunohistochemistry (IHC) analyzes of P-IRS-1 (S612) pAb in paraffin-embedded human breast carcinoma tissue at 1:100.

Note:

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

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