

Product datasheet for AP21042PU-N

IRS1 Rabbit Polyclonal Antibody

Product data:

Product Type: Primary Antibodies

IHC **Applications:**

Recommended Dilution: Immunohistochemistry on paraffin sections 1/50 - 1/200.

Human, Mouse, Rat Reactivity:

Rabbit Host:

Clonality: Polyclonal

This antibody detects endogenous levels of IRS-1 protein. Specificity:

(region surrounding Pro618)

Formulation: Phosphate buffered saline (PBS), pH 7.2.

State: Aff - Purified

State: Liquid purified Ig fraction Preservative: 0.05% sodium azide

Concentration: 1.0 mg/ml

Purification: Affinity chromatography (> 95% (by SDS-PAGE)

Conjugation: Unconjugated

Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Storage:

Avoid repeated freezing and thawing.

Shelf life: one year from despatch. Stability:

Predicted Protein Size: ~ 132 to 180 kDa

Gene Name: insulin receptor substrate 1

Database Link: Entrez Gene 16367 MouseEntrez Gene 25467 RatEntrez Gene 3667 Human

P35568



OriGene Technologies, Inc. 9620 Medical Center Drive, Ste 200

CN: techsupport@origene.cn

Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com



Background:

The insulin receptor substrate-1 (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 phosphortyrosine binding domain of IRS-1, which is responsible for the interaction with the insulin receptor.

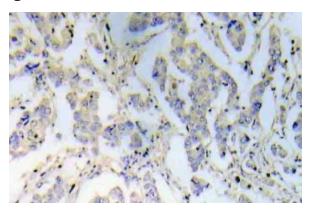
Synonyms: Insulin receptor substrate 1, IRS-1

Protein Families: Druggable Genome

Protein Pathways: Adipocytokine signaling pathway, Insulin signaling pathway, Neurotrophin signaling pathway,

Type II diabetes mellitus

Product images:



Immunohistochemistry (IHC) analyzes of IRS-1 antibody (Cat.-No.: AP21042PPU-N) in paraffinembedded human breast carcinoma tissue.