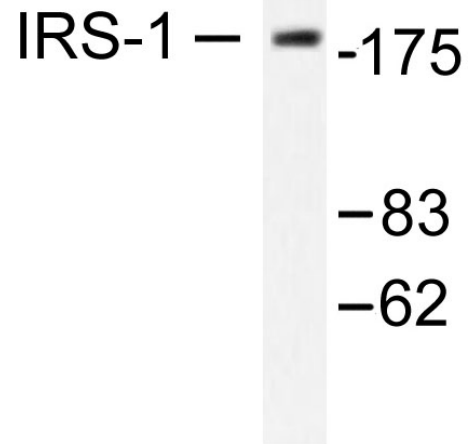


AP06397PU-N**Polyclonal Antibody to IRS1 - Aff - Purified**

Alternate names:	IRS-1, Insulin receptor substrate 1
Quantity:	0.1 mg
Concentration:	1.0 mg/ml
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.
Uniprot ID:	P35568
NCBI:	NP_005535.1
GeneID:	3667
Host:	Rabbit
Immunogen:	Synthetic peptide, corresponding to amino acids 280-320 of Human IRS-1.
Format:	State: Liquid purified Ig fraction Purification: Affinity-chromatography using epitope-specific immunogen and the purity is > 95% (by SDS-PAGE) Buffer System: Phosphate buffered saline (PBS), pH 7.2. Preservatives: 0.05% sodium azide
Applications:	Western blot: 1/500-1/1000. Immunohistochemistry on paraffin sections: 1/50-1/200. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Molecular Weight:	~ 132, 180 kDa
Specificity:	This antibody detects endogenous levels of IRS-1 protein (region surrounding Arg301)
Species Reactivity:	Tested: Human. Expected from sequence similarity: Mouse and Rat.
Storage:	Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing. Shelf life: one year from despatch.

Pictures:

Western blot (WB) analysis of IRS-1 antibody (Cat.-No.: AP06397PU-N) in extracts from A431 or 293 cell treated with UV 30.



Immunohistochemistry (IHC) analyzes of IRS-1 antibody (Cat.-No.: AP06397PU-N) in paraffin embedded human breast carcinoma tissue.

