

## Product datasheet for **AP02489PU-N**

### IRS1 pSer639 Rabbit Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	IHC, WB
Recommended Dilution:	Western Blot: 1/500~1/10000. Immunohistochemistry on Paraffin Sections: 1/50~1/100.
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	The antiserum was produced against synthesized phosphopeptide derived from human IRS-1 around the phosphorylation site of serine 639 (P-K-Sp-V-S).
Specificity:	This antibody detects endogenous levels of IRS-1 only when phosphorylated at Serine 639.
Formulation:	BPS (without Mg <sup>2+</sup> and Ca <sup>2+</sup> ), pH 7.4 containing 150mM NaCl, 0.02% Sodium Azide and 50% Glycerol. State: Aff - Purified State: Liquid purified IgG fraction.
Concentration:	lot specific
Purification:	Affinity Chromatography using epitope-specific phosphopeptide. The antibody against non-phosphopeptide was removed by chromatography using non-phosphopeptide corresponding to the phosphorylation site.
Conjugation:	Unconjugated
Storage:	Store the antibody (in aliquots) at -20°C. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	insulin receptor substrate 1
Database Link:	<a href="#">Entrez Gene 3667 Human P35568</a>



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**Background:**

Insulin receptor substrates (IRS) are responsible for several insulin related activities, such as glucose homeostasis, cell growth, cell transformation, apoptosis and insulin signal transduction. Serine/threonine phosphorylation of IRS1 has been demonstrated to be a negative regulator of insulin signaling and is responsible for its degradation, although IRS1 degradation pathways are not well understood. IRS1 has also been shown to be constitutively activated in cancers such as breast cancer, Wilm's tumors, and adrenal cortical carcinomas, thus making IRS1 phosphorylation and subsequent degradation an attractive therapeutic target. To date there have been four subtypes identified: IRS1, 2, 3 and 4, with IRS1 being widely expressed.

**Synonyms:**

Insulin receptor substrate 1, IRS-1

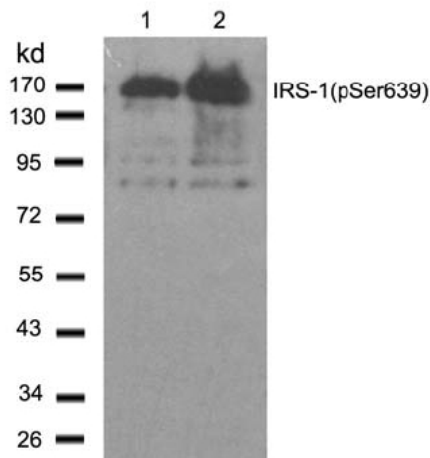
**Product images:**


Figure 2. Western blot analysis of extracts from 293 cells (Lane 1) and 293 cells treated with EGF (200ng/ml, 15min) using IRS-1 (phospho-Ser639) antibody.

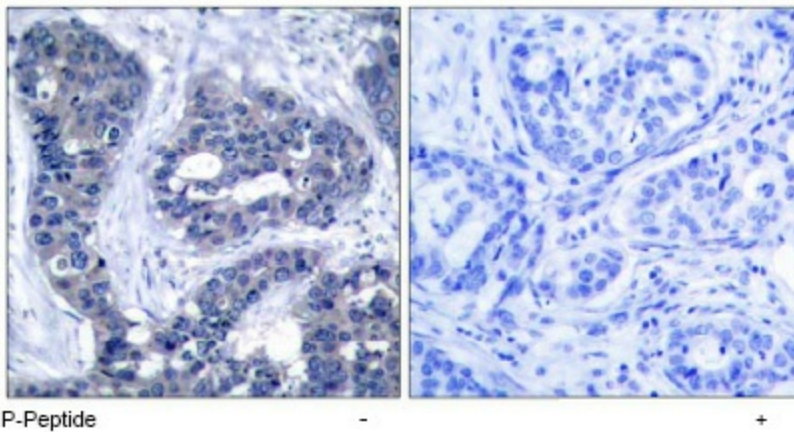


Figure 1. Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue, using IRS-1 antibody.