

## Phospho-IRS-1 (Ser312) Rabbit Polyclonal Antibody

# Catalog #: EAB14581

Host/Isotype	Clonality	Applications	MW (kDa)	Reactivity
Rabbit IgG	Polyclonal	WB, IHC-P, IF/ICC, ELISA	132	Human, Mouse, Rat

#### **Applications Dilutions**

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

IHC-P(Immunohistochemistry-Paraffin)1:50-300IF/ICC(Immunofluorescence/Immunocytochemistry)1:50-300ELISA(Enzyme-linked Immunosorbent Assay)1:5000-20000	WB(Western Blotting)	1:500-2000
	IHC-P(Immunohistochemistry-Paraffin)	1:50-300
ELISA(Enzyme-linked Immunosorbent Assay) 1:5000-20000	IF/ICC(Immunofluorescence/Immunocytochemistry)	1:50-300
	ELISA(Enzyme-linked Immunosorbent Assay)	1:5000-20000

#### **Product Information**

Conjugate	Unconjugate
Specificity	Phospho-IRS-1 (Ser312) Rabbit Polyclonal Antibody detects endogenous levels of IRS-1 only when phosphorylated at Ser312.
Purification	Affinity purification
Concentration	1mg/ml
Format	Liquid
Formulation	In PBS, pH 7.4, Containing 0.02% sodium azide, 0.5% BSA and 50% Glycerol
Shipping	Gel Pack
Storage	Store at -20°C least 1 year from the date of shipment. Avoid repeated freeze/thaw cycles. Aliquots may be stored at +4°C for 1-2 weeks
UniProt ID	<u>P35568</u>
Entrez-Gene ID	<u>3667</u>

### **Product Description**

IRS-1 is one of the major substrates of the insulin receptor kinase. IRS-1 contains multiple tyrosine phosphorylation motifs that serve as docking sites for SH2-domain containing proteins that mediate the metabolic and growth-promoting functions of insulin. IRS-1 also contains over 30 potential serine/threonine phosphorylation sites. Ser307 of IRS-1 is phosphorylated by JNK and IKK while Ser789 is phosphorylated by SIK-2, a member of the AMPK family. The PKC and mTOR pathways mediate phosphorylation of IRS-1 at Ser612 and Ser636/639, respectively. Phosphorylation of IRS-1 at Ser1101 is mediated by PKC0 and results in an inhibition of insulin signaling in the cell, suggesting a potential mechanism for insulin resistance in some models of obesity.

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Add: Imperial Business Park 4819 Emperor Boulevard, Suite 408 Durham, NC 27703, USA