

Rabbit IRS-1 (pS312), Antibody | anti-IRS-1 (pS312), antibody

Rabbit anti Phospho- IRS-1 (pSer 312) antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA71386	Rabbit	Human, Rat, Mouse	Immunohistochemistry, Western Blot, ELISA

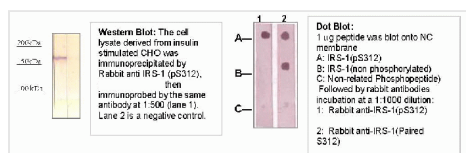
PRODUCT SYNONYMS

IRS-1 (pS312); ; Rabbit anti Phospho- IRS-1 (pSer 312) antibody; Rabbit anti-IRS-1 (p Ser312); Anti-phospho-IRS-1 (pSer312); Insulin-receptor substrate 1 (IRS-1); anti-IRS-1 (pS312); antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Rat, Mouse
Specificity	This antibody recognizes ~165 kDa of human IRS-1 (pSer312). It also reacts with mouse and rat. The other species are not tested.
Purity/Purification	The Rabbit IgG is purified by Site-specific Epitope Affinity Purification.
Form/Format	This affinity purified antibody is supplied in sterile Tris-buffered saline (pH7.2) containing antibody stabilizer
Concentration	Size: 100 ug/200 ul (varies by lot)
Applicable Applications for anti-IRS-1 (pS312), antibody	IHC (Immunohistochemistry), WB (Western Blot), ELISA
Antigen Preparation	A synthetic peptide corresponding to the epitope ATSPA with a single phosphorylation site Ser 312 of human IRS-1.
Positive Control	CHO cell lysate
Preparation and Storage	The antibodies are stable for 12 months from date of receipt when stored at -20 degree C to -70 degree C. The antibodies can be stored at 2 degree C-8 degree C for three month without detectable loss of activity. Avoid repeated freezing-thawing cycles.

IMAGES



Application Data

ADDITIONAL INFORMATION

Related Product Information for anti-IRS-1 (pS312), antibody	Insulin Receptor Substrate-1 (IRS-1), 165 kDa cytoplasmic docking protein, is one of the major endogenous substrates of the insulin receptor kinase. IRS-1 contains multiple tyrosine phosphorylation motifs that serve as docking sites for SH2 domain containing proteins, which mediate the metabolic and growth promoting functions of insulin. IRS-1 also contains over 30 potential serine/threonine phosphorylation sites. Ser312 of IRS-1 is phosphorylated by JNK and IKK and Ser789 is phosphorylated by SIK-2, a member of AMPK family. The phosphorylation of Tyr612 and Ser636/639 is mediated by the PKC and mTOR pathways, respectively and phosphorylation at Ser1101 is mediated by PKC, resulting in an inhibition of insulin signaling in the cell, suggesting a potential mechanism for insulin resistance in some models of obesity.
References	Li, Y. et al. (2004) J. Biol. Chem. 279, 45304-45307.

NCBI AND UNIPROT INFORMATION

NCBI GI #	547738
NCBI GeneID	3667
NCBI Accession #	P35568.1
NCBI GenBank Nucleotide #	P35568
UniProt Accession #	P35568
Molecular Weight	165 kDa
NCBI Official Full Name	Insulin receptor substrate 1
NCBI Official Synonym Full Names	insulin receptor substrate 1
NCBI Official Symbol	IRS1
NCBI Official Synonym Symbols	HIRS-1
NCBI Protein Information	insulin receptor substrate 1; IRS-1; OTTHUMP00000164234
UniProt Protein Name	Insulin receptor substrate 1
UniProt Gene Name	IRS1
UniProt Entry Name	IRS1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/rabbit-human-mouse-rat-antibody/irs-1-ps312/71386>