

Rabbit anti-Mouse Insr Polyclonal Antibody | anti-Insr antibody

Mouse Insr Antibody (P1325)

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA290584	Rabbit	Mouse	Western Blot

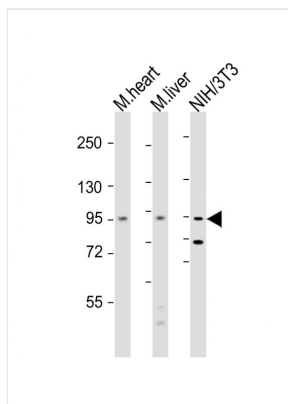
PRODUCT SYNONYMS

Insr; Polyclonal Antibody; Mouse Insr Antibody (P1325); Purified Rabbit Polyclonal Antibody (Pab); Insulin receptor; IR; CD220; Insulin receptor subunit alpha; Insulin receptor subunit beta; anti-Insr antibody

PRODUCT SPECIFICATIONS

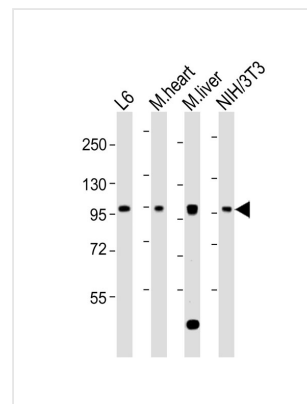
Host	Rabbit
Reactivity	Mouse
Clonality	Polyclonal
Isotype	Ig
Specificity	This Mouse Insr antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 1325-1358 amino acids from Mouse Insr.
Form/Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Sequence Length	1372
Applicable Applications for anti-Insr antibody	WB (Western Blot)
Antigen Source	Human
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.

IMAGES



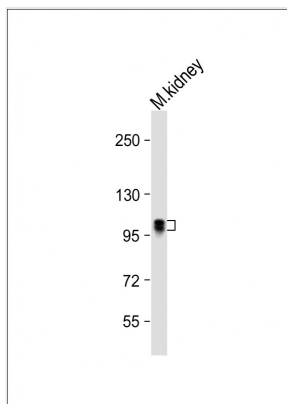
WB (Western Blot)

All lanes : Anti-Insr Antibody (P1325) at 1:2000 dilution
Lane 1: mouse heart lysate
Lane 2: mouse liver lysate
Lane 3: NIH/3T3 whole cell lysate
Lysates/proteins at 20 ug per lane.
Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution.
Predicted band size : 156 kDa
Blocking/Dilution buffer: 5% NFDM/TBST.



WB (Western Blot)

All lanes : Anti-Insr Antibody (P1325) at 1:2000 dilution
Lane 1: L6 whole cell lysate
Lane 2: mouse heart lysate
Lane 3: mouse liver lysate
Lane 4: NIH/3T3 whole cell lysate
Lysates/proteins at 20 ug per lane.
Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution.
Predicted band size : 156 kDa
Blocking/Dilution buffer: 5% NFDM/TBST.



WB (Western Blot)

Anti-Insr Antibody (P1325) at 1:2000 dilution + mouse kidney lysate. Lysates/proteins at 20 ug per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 156 kDa. Blocking/Dilution buffer: 5% NFDM/TBST.

ADDITIONAL INFORMATION

Related Product Information for anti-Insr antibody

Receptor tyrosine kinase which mediates the pleiotropic actions of insulin. Binding of insulin leads to phosphorylation of several intracellular substrates, including, insulin receptor substrates (IRS1, 2, 3, 4), SHC, GAB1, CBL and other signaling intermediates. Each of these phosphorylated proteins serve as docking proteins for other signaling proteins that contain Src- homology-2 domains (SH2 domain) that specifically recognize different phosphotyrosines residues, including the p85 regulatory subunit of PI3K and SHP2. Phosphorylation of IRSs proteins lead to the activation of two main signaling pathways: the PI3K-AKT/PKB pathway, which is responsible for most of the metabolic actions of insulin, and the Ras-MAPK pathway, which regulates expression of some genes and cooperates with the PI3K pathway to control cell growth and differentiation. Binding of the SH2 domains of PI3K to phosphotyrosines on IRS1 leads to the activation of PI3K and the generation of phosphatidylinositol-(3, 4, 5)-triphosphate (PIP3), a lipid second messenger, which activates several PIP3-dependent serine/threonine kinases, such as PDK1 and subsequently AKT/PKB. The net effect of this pathway is to produce a translocation of the glucose transporter SLC2A4/GLUT4 from cytoplasmic vesicles to the cell membrane to facilitate glucose transport. Moreover, upon insulin stimulation, activated AKT/PKB is responsible for: anti- apoptotic effect of insulin by inducing phosphorylation of BAD; regulates the expression of gluconeogenic and lipogenic enzymes by controlling the activity of the winged helix or forkhead (FOX) class of transcription factors. Another pathway regulated by PI3K-AKT/PKB activation is mTORC1 signaling pathway which regulates cell growth and metabolism and integrates signals from insulin. AKT mediates insulin-stimulated protein synthesis by phosphorylating TSC2 thereby activating mTORC1 pathway. The Ras/RAF/MAP2K/MAPK pathway is mainly involved in mediating cell growth, survival and cellular differentiation of insulin. Phosphorylated IRS1 recruits GRB2/SOS complex, which triggers the activation of the Ras/RAF/MAP2K/MAPK pathway. In addition to binding insulin, the insulin receptor can bind insulin-like growth factors (IGF1 and IGFII). When present in a hybrid receptor with IGF1R, binds IGF1 (By similarity).

Product Categories/Family for anti-Insr antibody

[Crown Antibodies](#); [Cancer](#); [Cardiovascular](#); [Neuroscience](#); [Signal Transduction](#)

References

Flores-Riveros J.R.,et al.J. Biol. Chem. 264:21557-21572(1989). Church D.M.,et al.PLoS Biol. 7:E1000112-E1000112(2009). Sibley E.,et al.Proc. Natl. Acad. Sci. U.S.A. 86:9732-9736(1989). Sawka-Verhelle D.,et al.J. Biol. Chem. 271:5980-5983(1996). Ribon V.,et al.Mol. Cell. Biol. 18:872-879(1998).

NCBI AND UNIPROT INFORMATION

NCBI GI #	157057178
NCBI GeneID	16337
NCBI Accession #	NP_034698.2
NCBI GenBank Nucleotide #	NM_010568.2
UniProt Accession #	P15208 ; F8VPU4
Molecular Weight	155610

NCBI Official Full Name	insulin receptor
NCBI Official Synonym Full Names	insulin receptor
NCBI Official Symbol	Insr
NCBI Official Synonym Symbols	IR; IR-A; IR-B; CD220; 4932439J01Rik; D630014A15Rik
NCBI Protein Information	insulin receptor
UniProt Protein Name	Insulin receptor
UniProt Gene Name	Insr
UniProt Synonym Gene Names	IR
UniProt Entry Name	INSR_MOUSE

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.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/insr-antibody-western-blot-elisa/290584>