Insulin Receptor R Antibody (N-Term) Blocking Peptide

PRODUCT OVERVIEW

Product Name	Insulin Receptor R (INSRR), Blocking Peptide
Full Product Name	Insulin Receptor R Antibody (N-term) Blocking peptide
Product Gene Name	INSRR blocking peptide
Product Synonym Gene Name	IRR
Product Synonym Names	Insulin receptor-related protein; IRR; IR-related receptor; Insulin receptor-related protein alpha chain; Insulin receptor-related protein beta chain; INSRR; IRR
Form/Format	The synthetic peptide was lyophilized with 100% acetonitrile and is supplied as a powder. Reconstitute with 0.1 ml deionized water for a final concentration of 1 mg/ml.
Specificity	The synthetic peptide sequence used to generate the antibody was selected from the N-term region of human INSRR. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C.
Antibody/Peptide Pairs	Insulin Receptor R peptide (MBS9227124) is used for blocking the activity of Insulin Receptor R antibody (MBS9201270)
Molecular Weight	143,720 Da
OMIM	147671
Cellular Location	Membrane; Single-pass type I membrane protein
Related Product Information for INSRR blocking peptide	Receptor with tyrosine-protein kinase activity. Functions as a pH sensing receptor which is activated by increased extracellular pH. Activates an intracellular signaling pathway that involves IRS1 and AKT1/PKB.
Other Notes	Small volumes of INSRR blocking peptide vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for INSRR purchase	MBS9227124 is a blocking peptide targeting INSRR. Also known as Insulin Receptor R Antibody (N-term) Blocking peptide.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for INSRR. It may not necessarily be applicable to this product.

NCBI GI #	12644000
NCBI GeneID	3645
NCBI Accession #	P14616.2
UniProt Primary Accession #	P14616
UniProt Secondary Accession #	O60724; Q5VZS3
UniProt Related Accession #	P14616
NCBI Official Full Name	Insulin receptor-related protein
NCBI Official Synonym Full Names	insulin receptor related receptor
NCBI Official Symbol	INSRR

NCBI Official Synonym Symbols	IRR
UniProt Protein Name	Insulin receptor-related protein
UniProt Synonym Protein Names	IR-related receptor
Protein Family	Insulin receptor-related protein
UniProt Gene Name	INSRR
UniProt Synonym Gene Names	IRR; IRR
UniProt Entry Name	INSRR_HUMAN
NCBI Protein Information	insulin receptor-related protein
UniProt Comments for INSRR	IRR: Receptor with tyrosine-protein kinase activity. Functions as a pH sensing receptor which is activated by increased extracellular pH. Activates an intracellular signaling pathway that involves IRS1 and AKT1/PKB. Probable tetramer of 2 alpha and 2 beta chains linked by disulfide bonds. The alpha chains contribute to the formation of the ligand-binding domain, while the beta chains carry the kinase domain. Belongs to the protein kinase superfamily. Tyr protein kinase family. Insulin receptor subfamily. Protein type: Protein kinase, tyrosine (receptor); EC 2.7.10.1; Kinase, protein; Membrane protein, integral; Protein kinase, TK; TK group; InsR family Chromosomal Location of Human Ortholog: 1q21-q23 Cellular Component: receptor complex Molecular Function: transmembrane receptor protein tyrosine kinase activity Biological Process: actin cytoskeleton reorganization; protein amino acid autophosphorylation
Research Articles on INSRR	**1.** IRR activation involves two separate centers of pH-dependent rearrangements that act synergistically to induce a major conformational change in the IRR molecule, resulting in internal kinase domains rapprochement and autophosphorylation.
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