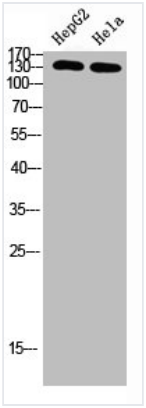
IRS2 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	IRS2, Polyclonal Antibody
Full Product Name	IRS2 Antibody
Product Gene Name	anti-IRS2 antibody
Product Synonym Names	IRS2
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Liquid; In Phosphate Buffered Saline, pH 7.4, Containing 0.02% Sodium Azide as Preservative and 50% Glycerol.
Purity/Purification	Affinity-purified from rabbit serum by affinity-chromatography using specific immunogen.
Preparation and Storage	Upon receipt, store at -20 degree C or -80 degree C. Avoid repeated freeze.
Molecular Weight	137,334 Da
Chromosome Location	Chromosome: 13; NC_000013.10 (110406184..110438914, complement). Location: 13q34
OMIM	600797
3D Structure	ModBase 3D Structure for Q9Y4H2
Immunogen	Synthetic peptide from human protein at AA range: 660-700
Immunogen Species	Human
Conjugate	Non-conjugated
Product Categories/Family for anti-IRS2 antibody	Signal Transduction
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-IRS2 antibody	Western Blot (WB), ELISA (EIA)
Application Notes for anti-IRS2 antibody	WB: 1:500-10000 ELISA: 1:10000
Related Product Information for anti-IRS2 antibody	MBS7122826 is an antibody targeting IRS2. Also known as IRS2 Antibody. Reactive in Human. Host: Rabbit.
Other Notes	Small volumes of anti-IRS2 antibody 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.



Western Blot (WB) of anti-IRS2 antibody
Western Blot analysis of HEPG2, HELA cells using Antibody diluted at 500. Secondary antibody was diluted at 1:20000

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for IRS2. It may not necessarily be applicable to this product.

NCBI GI #	38683860
NCBI GeneID	8660
NCBI Accession #	NP_003740.2
UniProt Primary Accession #	Q9Y4H2
UniProt Secondary Accession #	Q96RR2; Q9BZG0; Q9Y6I5
UniProt Related Accession #	Q9Y4H2
GenBank Nucleotide #	NM_003749.2
NCBI Official Full Name	insulin receptor substrate 2
NCBI Official Synonym Full Names	insulin receptor substrate 2
NCBI Official Symbol	IRS2
NCBI Official Synonym Symbols	IRS-2
UniProt Protein Name	Insulin receptor substrate 2
Protein Family	Insulin receptor substrate
UniProt Gene Name	IRS2
UniProt Synonym Gene Names	IRS-2
UniProt Entry Name	IRS2_HUMAN
NCBI Protein Information	insulin receptor substrate 2
NCBI Summary for IRS2	This gene encodes the insulin receptor substrate 2, a cytoplasmic signaling molecule that mediates effects of insulin, insulin-like growth factor 1, and other cytokines by acting as a molecular adaptor between diverse receptor tyrosine kinases and downstream effectors. The product of this gene is phosphorylated by the insulin receptor tyrosine kinase upon receptor stimulation, as well as by an interleukin 4 receptor-associated kinase in response to IL4 treatment. [provided by RefSeq, Jul 2008]

UniProt Comments for IRS2	IRS2: May mediate the control of various cellular processes by insulin. Interacts with PHIP. Protein type: Adaptor/scaffold; Motility/polarity/chemotaxis Chromosomal Location of Human Ortholog: 13q34 Cellular Component: plasma membrane; cytosol Molecular Function: protein domain specific binding; signal transducer activity; protein binding; phosphoinositide 3-kinase binding; protein kinase binding; protein phosphatase binding; insulin receptor binding Biological Process: epidermal growth factor receptor signaling pathway; negative regulation of kinase activity; regulation of lipid metabolic process; phosphoinositide-mediated signaling; fibroblast growth factor receptor signaling pathway; nerve growth factor receptor signaling pathway; positive regulation of glycogen biosynthetic process; lipid homeostasis; positive regulation of insulin secretion; glucose metabolic process; signal transduction; positive regulation of fatty acid beta-oxidation; positive regulation of glucose import; cell proliferation; mammary gland development; cellular response to insulin stimulus; positive regulation of cell proliferation; positive regulation of mesenchymal cell proliferation; positive regulation of B cell proliferation; response to glucose stimulus; insulin receptor signaling pathway; innate immune response; brain development; negative regulation of B cell apoptosis; positive regulation of cell migration Disease: Diabetes Mellitus, Noninsulin-dependent
Research Articles on IRS2	**1.** IRS-2 Gly1057Asp polymorphisms are associated with T2DM in the Kurdish ethnic group.
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