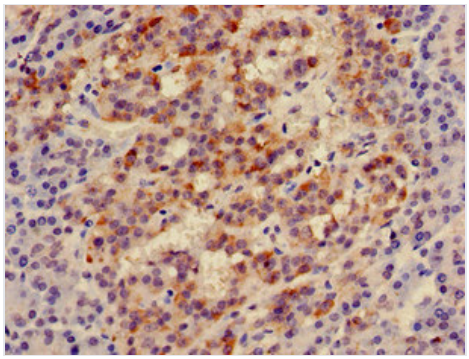
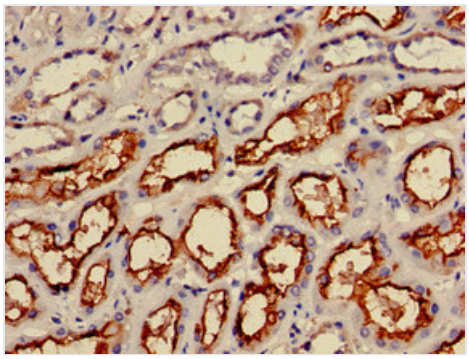
IRS2 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

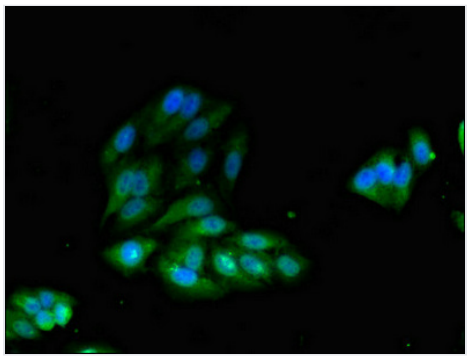
Product Name	IRS2, Polyclonal Antibody
Full Product Name	IRS2 Antibody
Product Gene Name	anti-IRS2 antibody
Product Synonym Names	Insulin receptor substrate 2; IRS-2; IRS2
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Liquid
Purity/Purification	>95%, Protein G purified
Preparation and Storage	Shipped at 4 degree C. Upon delivery aliquot and store at -20 degree C or -80 degree C. Avoid repeated freeze.
Matching Pairs	Unconjugated Antibody: IRS2 (MBS7052101) HRP Conjugated Antibody: IRS2 (MBS7052102)
Matching Pairs	Unconjugated Antibody: IRS2 (MBS7052101) FITC Conjugated Antibody: IRS2 (MBS7052103)
Matching Pairs	Unconjugated Antibody: IRS2 (MBS7052101) Biotin Conjugated Antibody: IRS2 (MBS7052104)
Molecular Weight	137,334 Da
OMIM	AB000732 Genomic DNA
3D Structure	ModBase 3D Structure for Q9Y4H2
Immunogen	Recombinant Human Insulin receptor substrate 2 protein (766-1001AA)
Conjugation	Non-conjugated
Preservative	0.03% Proclin 300
Constituents	50% Glycerol, 0.01M PBS, pH 7.4
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-IRS2 antibody	ELISA (EIA), Immunohistochemistry (IHC), Immunofluorescence (IF)
Application Notes for anti-IRS2 antibody	IHC: 1:20-1:200 IF: 1:50-1:200
Related Product Information for anti-IRS2 antibody	MBS7052101 is an antibody targeting IRS2. Also known as IRS2 Antibody. Reactive in Human. Host: Rabbit. May mediate the control of various cellular processes by insulin.
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.



Immunohistochemistry (IHC) of anti-IRS2 antibody
Immunohistochemistry of paraffin-embedded human pancreatic tissue using MBS7052101 at dilution of 1:100



Immunohistochemistry (IHC) of anti-IRS2 antibody
Immunohistochemistry of paraffin-embedded human kidney tissue using MBS7052101 at dilution of 1:100



Immunohistochemistry (IHC) of anti-IRS2 antibody
Immunofluorescent analysis of Hela cells using MBS7052101 at a dilution of 1:100 and Alexa Fluor 488-congugated AffiniPure Goat Anti-Rabbit IgG(H+L)

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
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: cytosol; plasma membrane Molecular Function: 1-phosphatidylinositol-3-kinase activity; insulin receptor binding; phosphatidylinositol-4,5-bisphosphate 3-kinase activity; phosphoinositide 3-kinase binding; protein binding; Ras guanyl-nucleotide exchange factor activity Biological Process: cellular response to insulin stimulus; glucose metabolic process; insulin receptor signaling pathway; lipid homeostasis; MAPKKK cascade; negative regulation of B cell apoptosis; negative regulation of kinase activity; phosphoinositide-mediated signaling; positive regulation of B cell proliferation; positive regulation of fatty acid beta-oxidation; positive regulation of glucose import; positive regulation of glycogen biosynthetic process; positive regulation of insulin secretion; regulation of lipid metabolic process; regulation of phosphoinositide 3-kinase cascade; response to glucose stimulus; signal transduction Disease: Diabetes Mellitus, Noninsulin-dependent
Research Articles on IRS2	**1.** miRNA-146a may function as a useful clinical tool in the treatment and diagnosis of ESCC, and its overexpression suppressed cell growth through inhibition of IRS2.
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