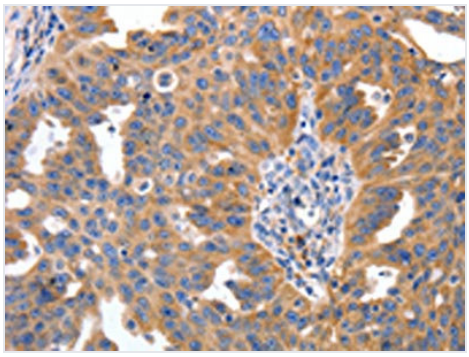
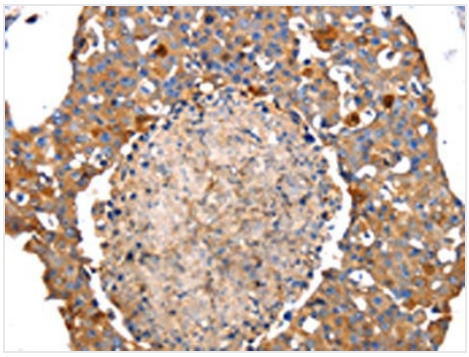
# IRS2 Antibody – Rabbit Polyclonal

## 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 |
| **Clonality** | Polyclonal |
| **Isotype** | IgG |
| **Host** | Rabbit |
| **Species Reactivity** | Human, Mouse |
| **Form/Format** | Liquid; In Phosphate Buffered Saline, pH 7.4, 0.05% NaN3, and 40% Glycerol |
| **Purity/Purification** | Antigen Affinity Purification |
| **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 of human IRS2 |
| **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** | ELISA (EIA), Immunohistochemistry (IHC) |
| **Application Notes for anti-IRS2 antibody** | ELISA: 1:2000-1:10000<br>IHC: 1:50-1:200 |
| **Related Product Information for anti-IRS2 antibody** | MBS7127391 is an antibody targeting IRS2. Also known as IRS2 Antibody. Reactive in Human, Mouse. 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. |



**Immunohistochemistry (IHC)-Paraffin of anti-IRS2 antibody**
The image on the left is immunohistochemistry of paraffin-embedded Human ovarian cancer tissue using MBS7127391(IRS2 Antibody) at dilution 1/100, on the right is treated with synthetic peptide. (Original magnification: ×200)



**Immunohistochemistry (IHC)-Paraffin of anti-IRS2 antibody**
The image on the left is immunohistochemistry of paraffin-embedded Human breast cancer tissue using MBS7127391(IRS2 Antibody) at dilution 1/100, on the right is treated with synthetic peptide. (Original magnification: ×200)

## 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.<br><br>Protein type: Adaptor/scaffold; Motility/polarity/chemotaxis<br><br>Chromosomal Location of Human Ortholog: 13q34<br><br>Cellular Component: plasma membrane; cytosol<br><br>Molecular Function: protein domain specific binding; signal transducer activity; protein binding; phosphoinositide 3-kinase binding; protein kinase binding; protein phosphatase binding; insulin receptor binding<br><br>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<br><br>Disease: Diabetes Mellitus, Noninsulin-dependent |
| **Research Articles on IRS2** | **1.** IRS-2 Gly1057Asp polymorphisms are associated with T2DM in the Kurdish ethnic group. |
| **Precautions** | All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines. |
| **Disclaimer** | While every efforts were made to ensure the accuracy of the information provided in this datasheet, MyBioSource will not be liable for any omissions or errors contained herein. MyBioSource reserves the right to make changes to this datasheet at any time without prior notice.<br><br>It is the responsibility of the customer to report product performance issues to MyBioSource within 30 days of receipt of the product. Please visit our Terms & Conditions page for more information. |
| **Product Note** | Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details. |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures.

**MyBioSource** | Tel: +1.858.633.0165 | Fax: +1.858.633.0166 | mybiosource.com/contact-us
Online datasheet: https://www.mybiosource.com/polyclonal-human-mouse-antibody/irs2/7127391