

IRS4 Antibody (monoclonal) (M01)**Mouse monoclonal antibody raised against a partial recombinant IRS4.****Catalog # AT2549a****Specification**

IRS4 Antibody (monoclonal) (M01) - Product Information

Application	WB, E
Primary Accession	O14654
Other Accession	NM_003604
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Isotype	IgG1 Kappa
Calculated MW	133768

IRS4 Antibody (monoclonal) (M01) - Additional Information**Gene ID** 8471**Other Names**

Insulin receptor substrate 4, IRS-4, 160 kDa phosphotyrosine protein, py160, Phosphoprotein of 160 kDa, pp160, IRS4

Target/Specificity

IRS4 (NP_003595, 850 a.a. ~ 950 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.

Dilution

WB~~1:500~1000

Format

Clear, colorless solution in phosphate buffered saline, pH 7.2 .

Storage

Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Precautions

IRS4 Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

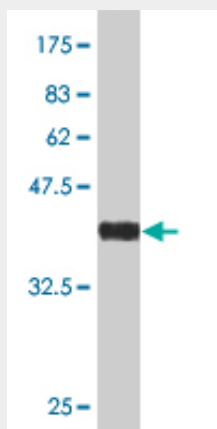
IRS4 Antibody (monoclonal) (M01) - Protocols

Provided below are standard protocols that you may find useful for product applications.

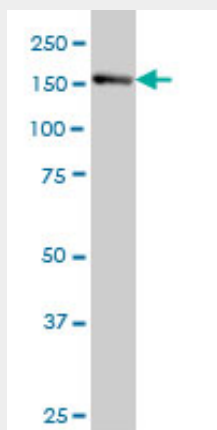
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)

- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

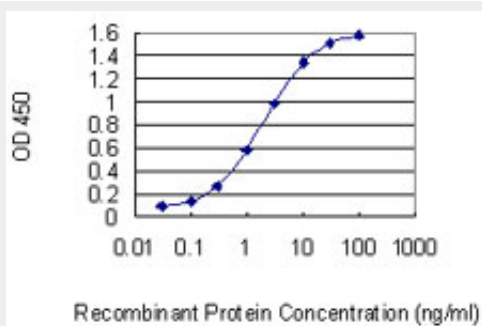
IRS4 Antibody (monoclonal) (M01) - Images



Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (36.85 kDa) .



IRS4 monoclonal antibody (M01), clone 5B9 Western Blot analysis of IRS4 expression in HeLa (Cat # AT2549a)



Detection limit for recombinant GST tagged IRS4 is 0.03 ng/ml as a capture antibody.

IRS4 Antibody (monoclonal) (M01) - Background

IRS4 encodes the insulin receptor substrate 4, a cytoplasmic protein that contains many potential tyrosine and serine/threonine phosphorylation sites. Tyrosine-phosphorylated IRS4 protein has been shown to associate with cytoplasmic signalling molecules that contain SH2 domains. The IRS4 protein is phosphorylated by the insulin receptor tyrosine kinase upon receptor stimulation..

IRS4 Antibody (monoclonal) (M01) - References

Variation at the NFATC2 Locus Increases the Risk of Thiazolinedinedione-Induced Edema in the Diabetes REduction Assessment with ramipril and rosiglitazone Medication (DREAM) Study. Bailey SD, et al. Diabetes Care, 2010 Jul 13. PMID 20628086. Insulin-like growth factor axis gene polymorphisms and clinical outcomes in pancreatic cancer. Dong X, et al. Gastroenterology, 2010 Aug. PMID 20416304. Gene-centric association signals for lipids and apolipoproteins identified via the HumanCVD BeadChip. Talmud PJ, et al. Am J Hum Genet, 2009 Nov. PMID 19913121. Adenovirus 5 E1A is responsible for increased expression of insulin receptor substrate 4 in established adenovirus 5-transformed cell lines and interacts with IRS components activating the PI3 kinase/Akt signalling pathway. Shimwell NJ, et al. Oncogene, 2009 Feb 5. PMID 19029952. Multiple genetic variants along candidate pathways influence plasma high-density lipoprotein cholesterol concentrations. Lu Y, et al. J Lipid Res, 2008 Dec. PMID 18660489.