

IRS4 Antibody (monoclonal) (M01)

Mouse monoclonal antibody raised against a partial recombinant IRS4.

Catalog # AT2549a

Product Information

Application	WB, E
Primary Accession	O14654
Other Accession	NM_003604
Reactivity	Human
Host	Mouse
Clonality	monoclonal
Isotype	IgG1 Kappa
Clone Names	5B9
Calculated MW	133768

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 E~~N/A
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.

Background

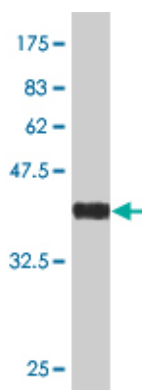
IRS4 encodes the insulin receptor substrate 4, a cytoplasmic protein that contains many potential tyrosine and serine/threonine phosphorylation sites. Tyrosine-phosphorylated IRS4 protein has been shown to associate with cytoplasmic signalling molecules that contain SH2 domains. The IRS4 protein is phosphorylated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

References

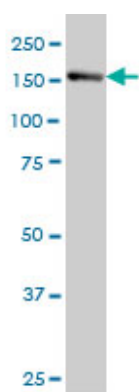
Variation at the NFATC2 Locus Increases the Risk of Thiazolinedinedione-Induced Edema in the Diabetes REduction Assessment with ramipril and rosiglitazone Medication (DREAM) Study. Bailey SD, et al. Diabetes

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.

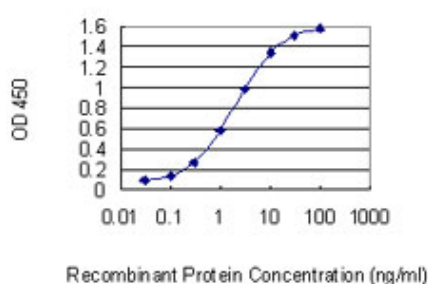
Images



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.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.