

For Research Use Only

IRS2 Polyclonal antibody

Catalog Number: 20702-1-AP **10 Publications**



Basic Information

Catalog Number: 20702-1-AP	GenBank Accession Number: NM_003749	Purification Method: Antigen affinity purification
Size: 150ul , Concentration: 500 µg/ml by Nanodrop;	GeneID (NCBI): 8660	Recommended Dilutions: WB 1:500-1:1000 IHC 1:50-1:500
Source: Rabbit	UNIPROT ID: Q9Y4H2	
Isotype: IgG	Full Name: IRS2	
	Calculated MW: 137 kDa	
	Observed MW: 150-185 kDa	

Applications

Tested Applications: WB, IHC, ELISA	Positive Controls: WB : mouse brain tissue, IHC : mouse skeletal muscle tissue,
Cited Applications: WB, IF	
Species Specificity: human, mouse	
Cited Species: human, rat, mouse	
Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0	

Background Information

The family of INS receptor substrates (IRS) consists of four proteins (IRS-1-IRS-4), which were initially characterized as typical cytosolic adaptor proteins involved in INS receptor (IR) and INS-like growth factor I receptor (IGF-IR) signaling. Impaired glucose tolerance and INS resistance, and thus type 2 diabetes were demonstrated in *Irs2* knockout mice. In vivo data also indicated that the regulation of beta-cell mass involves IRS2, while IRS1 is only required for proper INS production in beta-cells. IRS2, like IRS1, has a predicted molecular weight of 137 kDa, however, as a result of its extensive serine phosphorylation it separates on a SDS-PAGE as a band of approximately 150-185 kDa.

Notable Publications

Author	Pubmed ID	Journal	Application
Li Lin	36325267	Genet Res (Camb)	WB
Hang Peng	35844799	Int J Biol Sci	WB,IF
Yuhua Xu	35088561	Obesity (Silver Spring)	WB

Storage

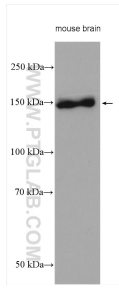
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

***** 20ul sizes contain 0.1% BSA**

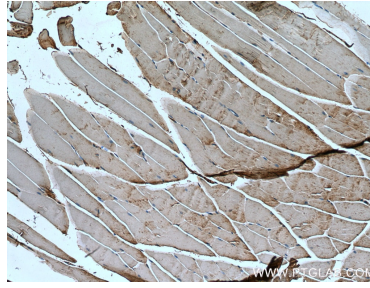
For technical support and original validation data for this product please contact:
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Selected Validation Data



mouse brain tissue were subjected to SDS PAGE followed by western blot with 20702-1-AP (IRS2 antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded mouse skeletal muscle tissue slide using 20702-1-AP (IRS2 antibody) at dilution of 1:200 (under 10x lens).