

For Research Use Only

IRS2 Polyclonal antibody

Catalog Number: 20702-1-AP

11 Publications



Basic Information

Catalog Number:

20702-1-AP

Size:

500 µg/ml

Source:

Rabbit

Isotype:

IgG

GenBank Accession Number:

NM_003749

GeneID (NCBI):

8660

UNIPROT ID:

Q9Y4H2

Full Name:

IRS2

Calculated MW:

137 kDa

Observed MW:

150-185 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:500-1:1000

IHC 1:50-1:500

Applications

Tested Applications:

WB, IHC, ELISA

Cited Applications:

WB, IF

Species Specificity:

human, mouse

Cited Species:

human, mouse, rat

Positive Controls:

WB: mouse brain tissue,

IHC: mouse skeletal muscle tissue,

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

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

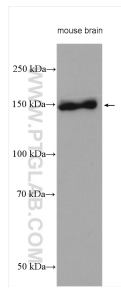
T: 4006900926

E: Proteintech-CN@ptglab.com

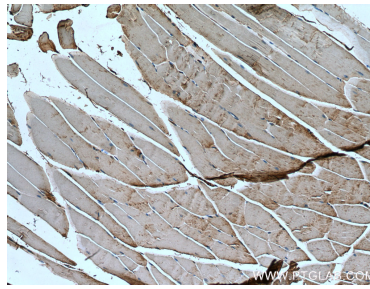
W: ptgcn.com

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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).