For Research Use Only

IRS1 Polyclonal antibody

Catalog Number: 17509-1-AP

Featured Product

82 Publications



Basic Information

Catalog Number: GenBank Accession Number: 17509-1-AP BC053895
Concentration: GeneID (NCBI):

500 ug/ml 3667

Source: UNIPROT ID:
Rabbit P35568
Isotype: Full Name:

IgG insulin receptor substrate 1

Immunogen Catalog Number: Calculated MW:

AG11714 1242 aa, 132 kDa

Observed MW: 160-185 kDa Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB: 1:5000-1:50000 IP: 0.5-4.0 ug for 1.0-3.0 mg of total

protein lysate IHC: 1:50-1:500 IF/ICC: 1:200-1:800

FC (Intra): 0.40 ug per 10^6 cells in a

100 µl suspension

Applications

Tested Applications:

WB, IHC, IF/ICC, FC (Intra), IP, ELISA

Cited Applications: WB, IHC, IF, IP, Dot blot Species Specificity:

human
Cited Species:

human, mouse, rat, pig, megalobrama amblycephala

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0 Positive Controls:

WB: A549 cells, A431 cells, HEK-293 cells, PC-3 cells

IP: A549 cells,

IHC: human colon tissue, human breast cancer tissue,

human liver tissue IF/ICC : A549 cells, FC (Intra) : MCF-7 cells,

Background Information

Ins receptor substrate 1 (IRS1) was the first cloned and characterized member of the IRS family which are involved in ins receptor (IR) and ins-like growth factor I receptor (IGF-IR) signaling. IRS1 is phosphorylated by ins receptor tyrosine kinase and is involved in various cellular processes including DNA repair fidelity, transcriptional activity, and cell growth can support tumor development and progression. Mutations in this gene are associated with type II diabetes and susceptibility to ins resistance. IRS1 has a predicted molecular weight of 132 kDa, however, as a result of its extensive serine phosphorylation it separates on a SDS gel as a band of approximately 160-185 kDa.

Notable Publications

Author	Pubmed ID	Journal	Application
Yang Liu	36149580	Cell Stress Chaperones	WB
Hiroshi Senoo	34551282	Mol Cell	WB
Takashi Hara	36130217	Biosci Biotechnol Biochem	WB

Storage

Storage

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

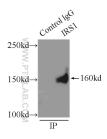
For technical support and original validation data for this product please contact:

T: 4006900926 E: Proteintech-CN@ptglab.com

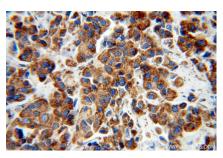
W: ptgcn.cor

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

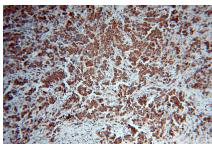
Selected Validation Data



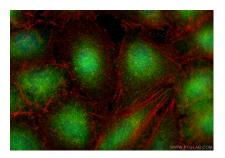
IP result of anti-IRS1 (IP:17509-1-AP, 5ug; Detection:17509-1-AP 1:1000) with A549 cells lysate 3500ug.



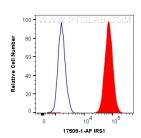
Immunohistochemical analysis of paraffinembedded human breast cancer using 17509-1-AP (IRS1 antibody) at dilution of 1:100 (under 40x lens).



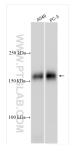
Immunohistochemical analysis of paraffinembedded human breast cancer using 17509-1-AP (IRS1 antibody) at dilution of 1:100 (under 10x lens).



Immunofluorescent analysis of (4% PFA) fixed A549 cells using IRS1 antibody (17509-1-AP) at dilution of 1:400 and Coralite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-Phalloidin (red).



1X10^6 MCF-7 cells were intracellularly stained with 0.4 ug Anti-Human IRS1 (17509-1-AP) and CoraLite® 488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) at dilution 1:1000 (red), or 0.4 ug Isotype Control. Cells were fixed and permeabilized with Transcription Factor Staining Buffer Kit (PF00011).



Various lysates were subjected to SDS PAGE followed by western blot with 17509-1-AP (IRS1 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffinembedded human colon tissue slide using 17509-1-AP (IRS1 antibody) at dilution of 1:200 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).