For Research Use Only

IRS1 Polyclonal antibody Catalog Number: 17509-1-AP Featured Product

Featured Product

75 Publications



Basic Information	Catalog Number: 17509-1-AP	GenBank Accession Number: BC053895		Purification Method: Antigen affinity purification	
	Size: 150ul , Concentration: 500 ug/ml by	GeneID (NCBI): 3667 UNIPROT ID: P35568 Full Name: insulin receptor substrate 1		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 1:50-1:500	
	Nanodrop and 300 ug/ml by Bradford method using BSA as the standard;				
	Source: Rabbit				
	Isotype: IgG	Calculated MW: 1242 aa, 132 kDa			
	Immunogen Catalog Number: AG11714	Observed MW: 160-185 kDa			
Applications	Tested Applications:	Positive Contr		rols:	
	Cited Applications:		WB : A549 cells, A431 cells, HEK-293 cells, PC-3 cells		
	WB, IHC, IF, IP, Dot blot	F, IP, Dot blot IP : A549 cell pecificity: IHC : human human liver		lls,	
	Species Specificity: human			tissue	
	Cited Species:		IF/ICC : A549 cells,		
	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				
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 Pub	med ID Jour	mal		Application
	Yang Liu 361	.49580 Cell	Stress Chaperone	25	WB
	Hiroshi Senoo 345	51282 Mol	Cell		WB
	Takashi Hara 361	.30217 Bios	ci Biotechnol Biod	chem	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: T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free E: proteintech@ptglab.com in USA), or 1(312) 455-8498 (outside USA) W: ptglab.com

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 1:200 and CoraLite@488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L), CL594phalloidin (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).