

For Research Use Only

IRS4 Polyclonal antibody

Catalog Number: 31012-1-AP



Basic Information

Catalog Number: 31012-1-AP	GenBank Accession Number: BC156977	Purification Method: Antigen affinity Purification
Size: 500 µg/ml	GeneID (NCBI): 8471	Recommended Dilutions: WB 1:1000-1:6000
Source: Rabbit	UNIPROT ID: O14654	
Isotype: IgG	Full Name: insulin receptor substrate 4	
Immunogen Catalog Number: AG34046	Calculated MW: 1257 aa, 135 kDa	
	Observed MW: 133-140 kDa	

Applications

Tested Applications: WB, ELISA	Positive Controls: WB : mouse liver tissue, rat liver tissue
Species Specificity: human, mouse, rat	

Background Information

IRS4 (Insulin receptor substrate 4), it is expected to be located in the cell membrane, which is expressed in myoblasts, liver and hepatocellular carcinoma. Acts as an interface between multiple growth factor receptors possessing tyrosine kinase activity, such as insulin receptor, IGF1R and FGFR1, and a complex network of intracellular signaling molecules containing SH2 domains. Involved in the IGF1R mitogenic signaling pathway. Interaction with GRB2 enhances insulin-stimulated mitogen-activated protein kinase activity. May be involved in nonreceptor tyrosine kinase signaling in myoblasts. Plays a pivotal role in the proliferation/differentiation of hepatoblastoma cell through EPHB2 activation upon IGF1 stimulation. May play a role in the signal transduction in response to insulin and to a lesser extent in response to IL4 and GH on mitogenesis. Plays a role in growth, reproduction and glucose homeostasis. The molecular weight of IRS4 is 133 kDa. 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.

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:

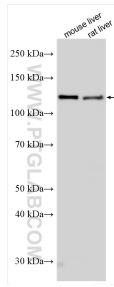
T: 4006900926

E: Proteintech-CN@ptglab.com

W: ptgcn.com

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

Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 31012-1-AP (IRS4 antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.