For Research Use Only

Phospho-IRS1 (Ser307) Recombinant antibody

Catalog Number:85238-1-RR

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Antibodies | ELISA kits | Proteins
Uni-rAb
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Basic Information

Catalog Number:
85238-1-RR

Size:
100ul , Concentration: 1000 μg/ml by Nanodrop;

Source:
Rabbit

Isotype:
IgG

GenBank Accession Number:
BC053895

GeneID (NCBI):
3667

UNIPROT ID:
P35568

Full Name:
insulin receptor substrate 1

Calculated MW:
1242 aa, 132 kDa

Observed MW:
180 kDa

Purification Method:
Protein A purification

CloneNo.:
242124E4

Recommended Dilutions:
WB 1:2000-1:10000

Applications

Tested Applications:
WB, ELISA

Species Specificity:
human, mouse

Positive Controls:

WB : NIH/3T3 cells, TNF alpha treated HeLa cells, TNF alpha treated NIH/3T3 cells

Background Information

Serine phosphorylation of insulin receptor substrate-1 (IRS-1) inhibits insulin signal transduction in a variety of cell backgrounds, which might contribute to peripheral insulin resistance. However, because of the large number of potential phosphorylation sites, the mechanism of inhibition has been difficult to determine. It has been confirmed that JNK and IKK are involved in the phosphorylation of IRS-1 (Ser307/312). Additionally, activation of Akt, ERK, mTOR, and PKCζ correlates to IRS-1 phosphorylation at Ser307/312, Ser267/270, and Ser612/616 in rodent/human IRS-1. (PMID: 11606564, PMID: 12714600)

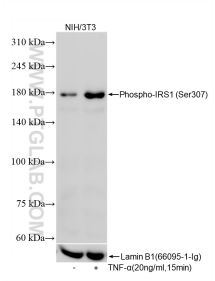
Storage

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

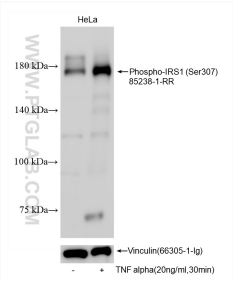
***** 20ul sizes contain 0.1% BSA**

For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

Selected Validation Data



Non-treated NIH/3T3 cells and TNF alpha treated NIH/3T3 cells were subjected to SDS PAGE followed by western blot with 85238-1-RR (Phospho-IRS1 (Ser307) antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours. The membrane was stripped and re-blotted with Lamin B1 (66095-1-Ig) antibody as a loading control.



Non-treated and TNF alpha treated HeLa cells were subjected to SDS PAGE followed by western blot with 85238-1-RR (Phospho-IRS1 (Ser307) antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. The membrane was stripped and re-blotted with Vinculin (66305-1-Ig) antibody as a loading control.