

For Research Use Only

# CoraLite® Plus 488-conjugated IRS1 Polyclonal antibody



Catalog Number: CL488-17509

Featured Product

## Basic Information

<b>Catalog Number:</b> CL488-17509	<b>GenBank Accession Number:</b> BC053895	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 100ul , Concentration: 1000 µg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 3667	<b>Recommended Dilutions:</b> IF 1:50-1:500
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> P35568	<b>Excitation/Emission maxima wavelengths:</b> 493 nm / 522 nm
<b>Isotype:</b> IgG	<b>Full Name:</b> insulin receptor substrate 1	
<b>Immunogen Catalog Number:</b> AG11714	<b>Calculated MW:</b> 1242 aa, 132 kDa	
	<b>Observed MW:</b> 160-185 kDa	

## Applications

<b>Tested Applications:</b> FC (Intra), IF	<b>Positive Controls:</b> IF : A549 cells,
<b>Species Specificity:</b> human	

## 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.

## Storage

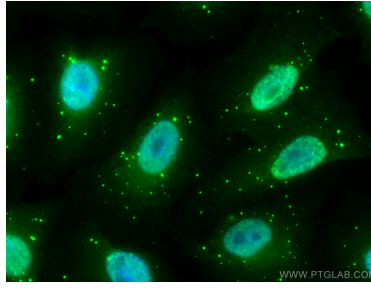
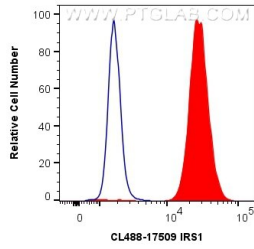
**Storage:**  
Store at -20°C. Avoid exposure to light. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 50% Glycerol, 0.05% Proclin300, 0.5% BSA, pH 7.3.  
Aliquoting is unnecessary for -20°C storage

\*\*\* 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 in USA), or 1(312) 455-8498 (outside USA)  
E: proteintech@ptglab.com  
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



1X10<sup>6</sup> MCF-7 cells were intracellularly stained with 0.8 ug CoraLite® Plus 488 Anti-Human IRS1 (CL488-17509) (red), or 0.8 ug Isotype Control. Cells were fixed and permeabilized with Transcription Factor Staining Buffer Kit (PF00011).

Immunofluorescent analysis of (4% PFA) fixed A549 cells using CoraLite® Plus 488 IRS1 antibody (CL488-17509) at dilution of 1:200.