For Research Use Only

CoraLite® Plus 488-conjugated IRS1 Polyclonal antibody

proteintech®
Antibodies | ELISA kits | Proteins
www.ptglab.com

Catalog Number:CL488-17509 Featured Product

Basic Information

Catalog Number:
CL488-17509

Size:
1000 μg/ml

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG11714

GenBank Accession Number:
BC053895

GeneID (NCBI):
3667

UNIPROT ID:
P35568

Full Name:
insulin receptor substrate 1

Calculated MW:
1242 aa, 132 kDa

Observed MW:
160-185 kDa

Purification Method:
Antigen affinity purification

Recommended Dilutions:
IF 1:50-1:500

Excitation/Emission maxima wavelengths:
493 nm / 522 nm

Applications

Tested Applications:
FC (Intra), IF/ICC

Species Specificity:
human

Positive Controls:

IF : A549 cells,

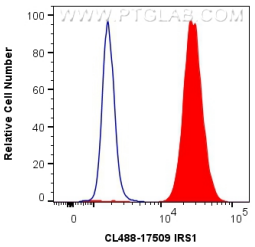
Background Information

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.

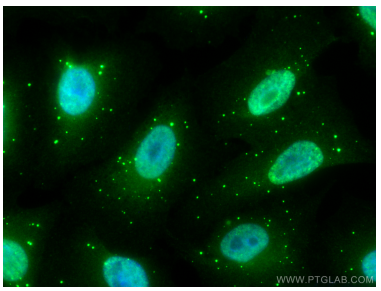
Storage

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

Selected Validation Data



1X10^6 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.