For Research Use Only

CoraLite® Plus 647-conjugated Phospho-GRB10 (Ser476) Recombinant monoclonal antibody

Catalog Number:CL647-80103-2

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

Basic Information

Catalog Number:
CL647-80103-2

Source:
Rabbit

Isotype:
IgG

GenBank Accession Number:
BC024285

GeneID (NCBI):
2887

UNIPROT ID:
Q13322

Full Name:
growth factor receptor-bound protein 10

Calculated MW:
536aa,61 kDa; 594aa,67 kDa

Observed MW:
70-80 kDa

Purification Method:
Protein A purification

CloneNo.:
241531D11

Recommended Dilutions:
FC (Intra): 0.25 ug per 10^6 cells in a 100 µl suspension

Excitation/Emission maxima wavelengths:
654 nm / 674 nm

Applications

Tested Applications:
FC (Intra)

Species Specificity:
human, mouse

Positive Controls:

FC (Intra) : NIH/3T3 cells,

Background Information

Growth factor receptor-bound protein 10 (GRB10) is an adapter protein which modulates coupling of a number of cell surface receptor kinases with specific signaling pathways. GRB10 has three consensus domains including pleckstrin homology (PH) domain, SH2/SH3 domain and Ras-associating domain. By binding to kinases, GRB10 suppresses signals from activated receptors tyrosine kinases, including the INSR and INS-like growth factor (IGF1R) receptors. It may play a role in mediating INS-stimulated ubiquitination of INSR, leading to proteasomal degradation. It has been reported that GRB10 is a direct substrate of mechanistic/mammalian target of mTOR and can be phosphorylated at Ser150, Ser428 and Ser476 identified as MAPK-mediated phosphorylation sites. (PMID: 15952796, 24746805, 21659605)

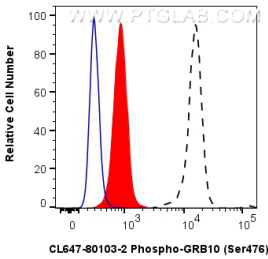
Storage

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, pH7.3
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

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Selected Validation Data



1X10^6 NIH/3T3 cells untreated (dashed lines) or treated with λ phosphatase which intracellularly stained with 0.25 ug Coralite® Plus 647 Phospho-Grb10 (Ser476) Recombinant Antibody (CL647-80103-2, Clone:241531D11)(red), or 0.25 ug Isotype Control (blue). Cells were fixed and permeabilized with Flow Cytometry Phosphorylated Protein Fixation/Permeabilization Kit (PF00026).