For Research Use Only

CoraLite®555-conjugated Perilipin 3/TIP47 Monoclonal antibody

Catalog Number:CL555-66523

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Antibodies | ELISA kits | Proteins
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Basic Information

Catalog Number:
CL555-66523

Source:
Mouse

Isotype:
IgG1

Immunogen Catalog Number:
AG1028

GenBank Accession Number:
BC007566

GeneID (NCBI):
10226

UNIPROT ID:
O60664

Full Name:
mannose-6-phosphate receptor binding protein 1

Calculated MW:
47 kDa

Observed MW:
47 kDa

Purification Method:
Protein G purification

CloneNo.:
4C11B1

Recommended Dilutions:
FC (Intra): 0.40 ug per 10^6 cells in a 100 µl suspension

Excitation/Emission maxima wavelengths:
557 nm / 570 nm

Applications

Tested Applications:
FC (Intra)

Species Specificity:
human

Positive Controls:

FC (Intra) : HeLa cells,

Background Information

Mannose 6-phosphate receptors (M6PRs) transport newly synthesized lysosomal hydrolases from the Golgi to prelysosomes and then return to the Golgi for another round of transport. M6PRBP1 (mannose-6-phosphate receptor binding protein 1), also known as TIP47, PLIN3 or PP17, interacts with the cytoplasmic domains of both cation-independent and cation-dependent M6PRs, and is required for endosome-to-Golgi transport. In addition to M6PR recycling, M6PRBP1 plays a role in lipid droplet biogenesis, and is also implicated in rhodopsin photobleaching and viral infection. M6PRBP1 has been found to be expressed in a variety of human tissues (including colon, liver and lung parenchyme, mammary gland, and skin) and is overexpressed in certain cancer cell lines. It binds to lipid droplets and also occurs in cytosol and on endosomal membranes.

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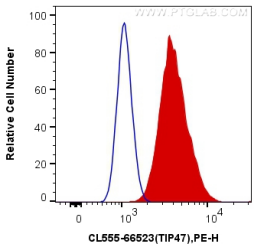
This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

Selected Validation Data



1X10^6 HeLa cells were intracellularly stained with 0.4 ug CoraLite®555 Anti-Human TIP47 (CL555-66523, Clone:4C11B1) (red), or 0.4 ug Control Antibody. Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer.