

For Research Use Only

CoraLite® Plus 647-conjugated Osteopontin Polyclonal antibody

Catalog Number: CL647-22952

Featured Product



Basic Information

Catalog Number:

CL647-22952

Concentration:

1000 µg/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG19216

GenBank Accession Number:

BC007016

GeneID (NCBI):

6696

UNIPROT ID:

P10451

Full Name:

secreted phosphoprotein 1

Calculated MW:

314 aa, 35 kDa

Observed MW:

70 kDa, 44-66 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

FC (Intra): 0.80 µg per 10⁶ cells in a 100 µl suspension

Excitation/Emission maxima wavelengths:

654 nm / 674 nm

Applications

Tested Applications:

FC (Intra)

Species Specificity:

human, mouse, rat

Positive Controls:

FC (Intra) : HepG2 cells,

Background Information

Osteopontin (OPN), also known as SPP1, is a secreted glycoprophosphoprotein that belongs to the small integrin-binding ligand N-linked glycoprotein (SIBLING) family. Originally isolated from bone, OPN has been found in kidney, vascular tissues, biological fluids, and various tumor tissues (PMID: 15138464; 16406521). OPN can interact with CD44 and integrins and regulate diverse biological processes. It has a multifaceted role in bone development and remodeling, and is also involved in the inflammatory and immune response, oncogenesis and cancer progression. The very acidic nature of OPN, as well as the presence of variable posttranslational modifications, has led to anomalous migration in SDS-polyacrylamide gels and therefore to reports of different molecular weights for OPN (PMID: 8293561). Depending on the cell and tissue source and/or the SDS-PAGE system, OPN migrates with a molecular weight of 44-80 kDa, as well as at some smaller bands correspond to peptide fragments (PMID: 8195113; 17890765).

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:

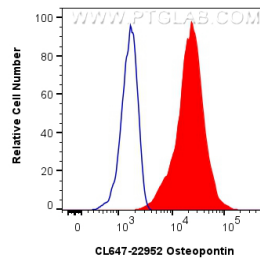
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This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

Selected Validation Data



1X10⁶ HepG2 cells were intracellularly stained with 0.8 ug CoraLite® Plus 647 Anti-Human Osteopontin (CL647-22952) (red), or 0.8 ug Isotype Control. Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).