

For Research Use Only

CoraLite® Plus 488-conjugated SPARC Monoclonal antibody



Catalog Number: CL488-66426

Basic Information

Catalog Number:

CL488-66426

Size:

1000 µg/ml

Source:

Mouse

Isotype:

IgG2a

Immunogen Catalog Number:

AG7390

GenBank Accession Number:

BC004974

GeneID (NCBI):

6678

UNIPROT ID:

P09486

Full Name:

secreted protein, acidic, cysteine-rich (osteonectin)

Calculated MW:

35 kDa

Observed MW:

38 kDa, 52 kDa

Purification Method:

Protein A purification

CloneNo.:

1A2C1

Recommended Dilutions:

IF 1:50-1:500

Excitation/Emission maxima

wavelengths:

493 nm / 522 nm

Applications

Tested Applications:

IF/ICC

Species Specificity:

human, Rat

Positive Controls:

IF : C6 cells,

Background Information

SPARC, also known as ON (Osteonectin) or BM-40 (Basement-membrane protein 40), is an extracellular glycoprotein with the calculated molecular mass of 35 kDa and the apparent molecular mass of 40-43 kDa and 50 kDa (PMID: 7495300, 12365801). SPARC belongs to a group of matricellular proteins defined as secreted components that do not contribute directly to the formation of structural elements but serve to modulate cell-matrix interactions and cellular functions (PMID: 7542656; 12231357). SPARC is expressed at high levels in bone tissue, is distributed widely in many other tissues and cell types, and is associated generally with tissues undergoing morphogenesis, remodeling and wound repair (PMID: 10567433). It elicits changes in cell shape, inhibits cell-cycle progression, and influences the synthesis of extracellular matrix (PMID: 12721366). Altered expression of SPARC has been reported in a variety of cancers, which include breast, ovarian, colorectal, and pancreatic cancer as well as melanoma and glioblastomas (PMID: 18849185).

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

For technical support and original validation data for this product please contact:

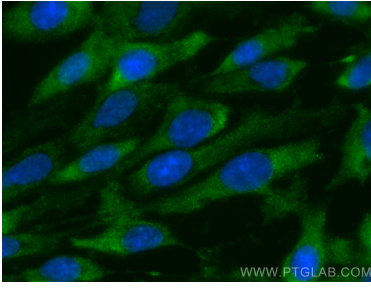
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This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

Selected Validation Data



Immunofluorescent analysis of (-20°C Ethanol) fixed C6 cells using CoraLite® Plus 488 SPARC antibody (CL488-66426, Clone: 1A2C1) at dilution of 1:200.