

For Research Use Only

# CoraLite® Plus 488-conjugated CD31 Recombinant monoclonal antibody

Catalog Number:CL488-80773-4



## Basic Information

Catalog Number:

CL488-80773-4

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

EG4658

GenBank Accession Number:

NM\_000442.5

GeneID (NCBI):

5175

ENSEMBL Gene ID:

ENSG00000261371

UNIPROT ID:

P16284-1

Full Name:

platelet/endothelial cell adhesion molecule

Calculated MW:

83 kDa

Observed MW:

130-150 kDa

Purification Method:

Protein A purification

CloneNo.:

251101C9

Recommended Dilutions:

IF/ICC: 1:50-1:500

Excitation/Emission maxima wavelengths:

493 nm / 522 nm

## Applications

Tested Applications:

IF/ICC

Species Specificity:

human

Positive Controls:

IF/ICC : HUVEC cells,

## Background Information

Platelet endothelial cell adhesion molecule-1 (PECAM-1, CD31) is a member of the immunoglobulin gene superfamily of cell adhesion molecules. CD31 is a transmembrane glycoprotein that is highly expressed on the surface of the endothelium, making up a large portion of its intracellular junctions. PECAM-1 is also present on the surface of hematopoietic cells and immune cells including platelets, monocytes, neutrophils, natural killer cells, megakaryocytes and some types of T-cell (PMID: 9011572). As well as its role in cell-cell adhesion, PECAM-1 functions as a signaling receptor, and is involved in important physiological events such as nitric oxide production, regulation of T-cell immunity and tolerance, leukocyte transendothelial migration and inflammation and angiogenesis (PMID: 21183735; 20978210; 17872453; 20634489).

## 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.

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## Selected Validation Data



Immunofluorescent analysis of (4% PFA) fixed HUVEC cells using CoraLite® Plus 488 CD31 antibody (CL488-80773-4, Clone: 251101C9) at dilution of 1:200.