

For Research Use Only

CoraLite®594-conjugated CD31 Polyclonal antibody

Catalog Number: CL594-11265

Featured Product

1 Publications



Basic Information

Catalog Number:

CL594-11265

Size:

100ul , Concentration: 1000 ug/ml by
Nanodrop;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG1787

GenBank Accession Number:

BC022512

GeneID (NCBI):

5175

ENSEMBL Gene ID:

ENSG00000261371

UNIPROT ID:

P16284

Full Name:

platelet/endothelial cell adhesion
molecule

Calculated MW:

83 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

IF-P 1:50-1:500

IF/ICC 1:50-1:500

Excitation/Emission maxima
wavelengths:

588 nm / 604 nm

Applications

Tested Applications:

IF/ICC, IF-P

Cited Applications:

IF

Species Specificity:

human

Cited Species:

human

Positive Controls:

IF-P : human breast cancer tissue, human tonsillitis
tissue

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).

Notable Publications

| Author | Pubmed ID | Journal | Application |
|----------------|-----------|--------------------|-------------|
| Yong-Hong Wang | 34256842 | Stem Cell Res Ther | IF |

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

Aliquoting is unnecessary for -20°C storage

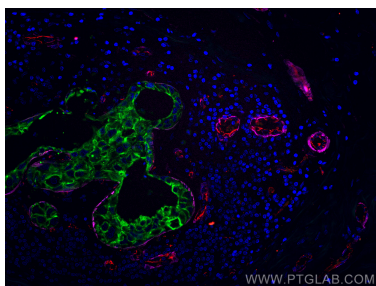
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free
in USA), or 1(312) 455-8498 (outside USA)

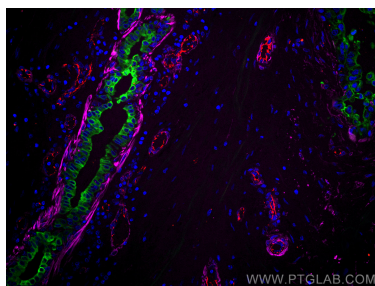
E: proteintech@ptglab.com
W: ptglab.com

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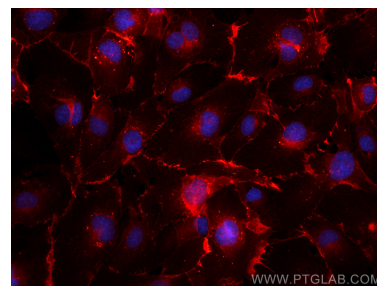
Selected Validation Data



Immunofluorescent analysis of (4% PFA) fixed human breast cancer tissue using CoraLite® 594 CD31 antibody (CL594-11265) at dilution of 1:200, CoraLite® 488 Cytokeratin 7 antibody (CL488-15539, green), CoraLite® Plus 647 smooth muscle actin specific antibody (CL647-67735, Clone: 1E9A11, magenta).



Immunofluorescent analysis of (4% PFA) fixed human breast cancer tissue using CoraLite® 594 CD31 antibody (CL594-11265) at dilution of 1:200, CoraLite® 488 Cytokeratin 7 antibody (CL488-15539, green), CoraLite® Plus 647 smooth muscle actin specific antibody (CL647-67735, Clone: 1E9A11, magenta).



Immunofluorescent analysis of (4% PFA) fixed HUVEC cells using CoraLite® 594 CD31 antibody (CL594-11265) at dilution of 1:200.