

For Research Use Only

CoraLite® Plus 488-conjugated CD31 Monoclonal antibody



Catalog Number: **CL488-66065** **2 Publications**

Basic Information

Catalog Number: CL488-66065	GenBank Accession Number: BC022512	Purification Method: Protein A purification
Size: 100ul , Concentration: 1000 µg/ml by Nanodrop;	GeneID (NCBI): 5175	CloneNo.: 3F8E2
Source: Mouse	Full Name: platelet/endothelial cell adhesion molecule	Recommended Dilutions: IF 1:50-1:500
Isotype: IgG1	Calculated MW: 83 kDa	Excitation/Emission maxima wavelengths: 493 nm / 522 nm
Immunogen Catalog Number: AG1787		

Applications

Tested Applications: FC, IF	Positive Controls: IF : Lymphatic endothelial cells cells, human colon cancer tissue, human tonsillitis tissue
Cited Applications: IF	
Species Specificity: human	
Cited Species: human	

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). This antibody is conjugated with CL488, Ex/Em 488 nm/515 nm.

Notable Publications

Author	Pubmed ID	Journal	Application
Jun He	38232667	Biochem Biophys Res Commun	IF
Jun-Qi Luo	37542027	Cell Death Dis	IF

Storage

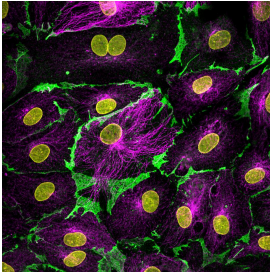
Storage:
Store at -20°C. Avoid exposure to light. Stable for one year after shipment.
Storage Buffer:
PBS with 50% Glycerol, 0.05% Proclin300, 0.5% BSA, pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

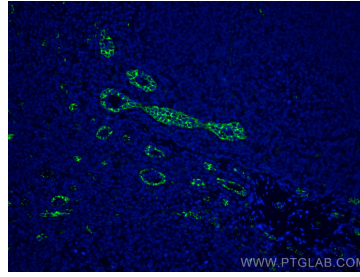
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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

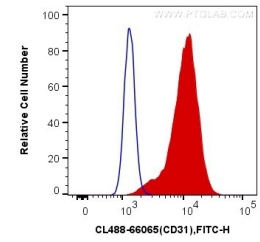
Selected Validation Data



Lymphatic endothelial cells were stained for CD31 (green, Cat. No CL488-66065, 1:200) and alpha tubulin (magenta, Cat. 11224-1-AP, 1:200) with DAPI as a counterstain for visualizing the nucleus (yellow). CD31 is an endothelial cell adhesion protein and was conjugated to CoraLite-488 fluorescent dye to allow for direct visualization. Alpha tubulin is a cytoskeletal protein important in cell division and migration and was visualized



Immunofluorescent analysis of (4% PFA) fixed human tonsillitis tissue using CoraLite® Plus 488 CD31 antibody (CL488-66065, Clone: 2A1E2) at dilution of 1:400.



1×10^6 THP-1 cells were surface stained with 0.4 ug CoraLite® Plus 488 Anti-Human CD31 (CL488-66065, Clone:3F8E2) (red), or 0.4 ug Control Antibody. Cells were not fixed.