

For Research Use Only

# CoraLite® Plus 555-conjugated CD31 Polyclonal antibody

Catalog Number: CL555-28083



## Basic Information

### Catalog Number:

CL555-28083

### Size:

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

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG27828

### GenBank Accession Number:

NM\_001032378

### GeneID (NCBI):

18613

### UNIPROT ID:

Q08481

### Full Name:

platelet/endothelial cell adhesion molecule 1

### Calculated MW:

81 kDa

### Observed MW:

110-130 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

IF-P: 1:50-1:500

### Excitation/Emission maxima wavelengths:

554 nm / 570 nm

## Applications

### Tested Applications:

IF-P

### Species Specificity:

mouse

### Positive Controls:

IF-P: mouse brain tissue,

## 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:

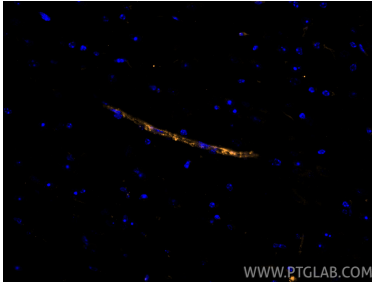
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## Selected Validation Data



Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded mouse brain tissue using CoraLite® Plus 555 CD31 antibody (CL555-28083) at dilution of 1:200. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).