

For Research Use Only

# CoraLite® Plus 488 Anti-Mouse CD31 (390)



Catalog Number: **CL488-65058**

## Basic Information

<b>Catalog Number:</b> CL488-65058	<b>GenBank Accession Number:</b> BC008519	<b>Purification Method:</b> Affinity purification
<b>Size:</b> 100ug, 0.5 mg/ml	<b>GeneID (NCBI):</b> 18613	<b>CloneNo.:</b> 390
<b>Source:</b> Rat	<b>UNIPROT ID:</b> Q08481	<b>Recommended Dilutions:</b> IF/ICC 1:50-1:500
<b>Isotype:</b> IgG2a, kappa	<b>Full Name:</b> platelet/endothelial cell adhesion molecule 1	<b>Excitation/Emission maxima wavelengths:</b> 493 nm / 522 nm

## Applications

<b>Tested Applications:</b> FC, IF/ICC	<b>Positive Controls:</b> IF/ICC : bEnd.3 cells,
<b>Species Specificity:</b> Mouse	

## 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 2-8°C. Avoid exposure to light. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.1% sodium azide and 0.5% BSA, pH 7.3.

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

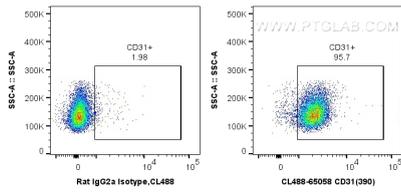
T: 4006900926

E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

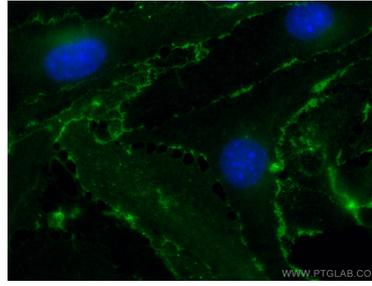
W: [ptgcn.com](http://ptgcn.com)

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

## Selected Validation Data



1X10<sup>6</sup> BALB/C mouse splenocytes were surface stained with 0.5 ug CoraLite® Plus 488 Anti-Mouse CD31 (CL488-65058, Clone:390), or 0.5 ug CoraLite® Plus 488 Rat IgG2a Isotype Control (2A3) (CL488-65209, Clone: 2A3). Cells were not fixed.



Immunofluorescent analysis of (4% PFA) fixed bEnd.3 cells using CoraLite® Plus 488 CD31 antibody (CL488-65058, Clone: 390) at dilution of 1:100.