

For Research Use Only

# CoraLite®594 Anti-Mouse CD31 (390)



Catalog Number:CL594-65058

## Basic Information

<b>Catalog Number:</b> CL594-65058	<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 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> 588 nm / 604 nm

## Applications

<b>Tested Applications:</b> FC, IF/ICC	<b>Positive Controls:</b> IF : 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:

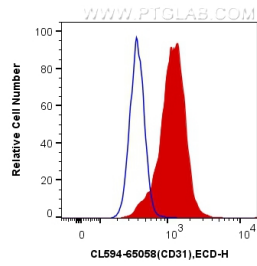
T: 4006900926

E: Proteintech-CN@ptglab.com

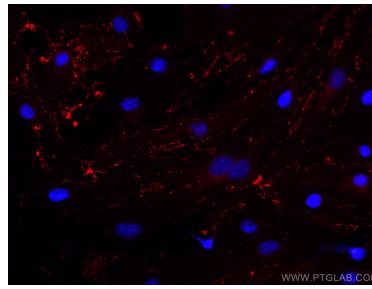
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## Selected Validation Data



$1 \times 10^6$  mouse splenocytes were surface stained with 0.5  $\mu$ g CoraLite®594 Anti-Mouse CD31 (CL594-65058, Clone: 390) (red), or 0.5  $\mu$ g isotype control.



Immunofluorescent analysis of (4% PFA) fixed bEnd.3 cells using CoraLite®594 CD31 antibody (CL594-65058, Clone: 390) at dilution of 1:200.