

For Research Use Only

FITC Plus Anti-Mouse CD31 (390)

Catalog Number: FITC-65058 **4 Publications**



Basic Information

Catalog Number: FITC-65058	GenBank Accession Number: BC008519	Purification Method: Affinity purification
Size: 100ug, 0.5 mg/ml	GeneID (NCBI): 18613	CloneNo.: 390
Source: Rat	UNIPROT ID: Q08481	Recommended Dilutions: IF 1:50-1:500
Isotype: IgG2a, kappa	Full Name: platelet/endothelial cell adhesion molecule 1	Excitation/Emission maxima wavelengths: 495 nm / 524 nm

Applications

Tested Applications: FC, IF/ICC	Positive Controls: IF : bEnd.3 cells,
Cited Applications: FC, IF	
Species Specificity: Mouse	
Cited Species: rat, 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).

Notable Publications

Author	Pubmed ID	Journal	Application
Xufeng Mao	36078178	Cells	FC
Jiaming Fu	35908648	Bone	FC
Hong Su	35906216	Cell Death Dis	IF

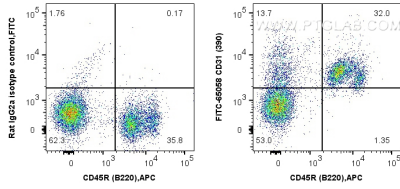
Storage

Storage:
Store at 2-8°C. Avoid exposure to light. Stable for one year after shipment.
Storage Buffer:
PBS with 0.09% sodium azide.

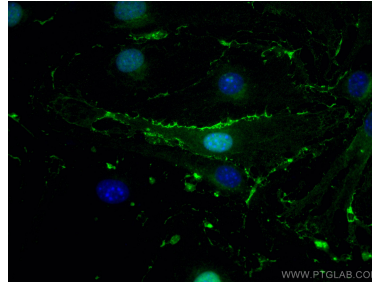
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Selected Validation Data



1X10⁶ C57BL/6 mouse bone marrow cells were surface co-stained with APC Anti-Mouse CD45R (B220) and 0.5 ug FITC Plus Anti-Mouse CD31 (FITC-65058, Clone: 390) or 0.5 ug FITC Rat IgG2a Isotype Control (2A3) (FITC-65209, Clone: 2A3). Cells were not fixed.



Immunofluorescent analysis of (4% PFA) fixed bEnd.3 cells using FITC Anti-Mouse CD31 (FITC-65058, Clone: 390) at dilution of 1:100.