For Research Use Only

Biotin Anti-Human CD31 (WM-59) Mouse IgG2a Recombinant Antibody

Catalog Number:Biotin-65614

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Basic Information

Catalog Number:
Biotin-65614

Size:
100ug , 500 µg/ml

Source:
Mouse

Isotype:
IgG2a

GenBank Accession Number:
BC022512

GeneID (NCBI):
5175

ENSEMBL Gene ID:
ENSG00000261371

UNIPROT ID:
P16284

Full Name:
platelet/endothelial cell adhesion molecule

Calculated MW:
83 kDa

Purification Method:
Protein A purification

CloneNo.:
WM-59

Recommended Dilutions:
FC: 0.25 ug per 10^6 cells in 100 ul suspension

Applications

Tested Applications:
FC, ELISA

Species Specificity:
human

Positive Controls:

FC : human PBMCs,

Background Information

CD31, also known as PECAM1 (Platelet endothelial cell adhesion molecule), 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. It 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, CD31 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).

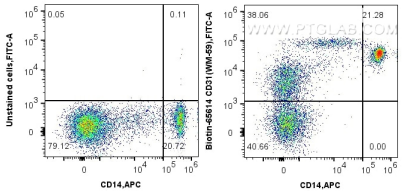
Storage

Storage:
Store at 2-8°C. Avoid exposure to light. Stable for one year after shipment.
Storage Buffer:
PBS with 0.09% sodium azide, pH7.3

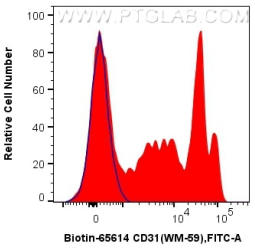
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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

Selected Validation Data



1x10^6 human PBMCs were surface stained with 0.25 ug Biotin Anti-Human CD31 (WM-59) Mouse IgG2a RecAb (Biotin-65614, Clone: WM-59) and CoraLite®488-conjugated streptavidin, or unstained. Cells were then stained with APC Anti-Human CD14. Cells were incubated with FC Receptor Block prior to staining. Cells were not fixed.



1x10^6 human PBMCs were surface stained with 0.25 ug Biotin Anti-Human CD31 (WM-59) Mouse IgG2a RecAb (Biotin-65614, Clone: WM-59) (red) and CoraLite®488-conjugated streptavidin, or unstained (blue). Cells were incubated with FC Receptor Block prior to staining. Cells were not fixed.