For Research Use Only

CD31 Monoclonal antibody, PBS Only (Capture)

Catalog Number: 66065-2-PBS



Purification Method:

Protein G purification

CloneNo.:

3F8E2

Basic Information

Catalog Number: GenBank Accession Number:

66065-2-PBS BC022512
Size: GeneID (NCBI):

100ug , Concentration: 1000 ug/ml by 5175
Nanodrop; ENSEMBL Gene ID:
Source: ENSG00000261371
Mouse UNIPROT ID:
Isotype: P16284

Immunogen Catalog Number: platelet/endothelial cell adhesion

AG19730 molecule Calculated MW:

83 kDa
Observed MW:
120-130 kDa

Full Name:

Applications

Tested Applications:

WB, IHC, IF/ICC, IF-P, Cytometric bead array, Indirect

FIISA

lgG1

Species Specificity:

human

Product Information

66065-2-PBS targets CD31 as part of a matched antibody pair:

MP50319-2: 66065-2-PBS capture and 66065-5-PBS detection (validated in Cytometric bead array)

Unconjugated mouse monoclonal antibody pair in PBS only (BSA and azide free) storage buffer at a concentration of 1 mg/mL, ready for conjugation.

This conjugation ready format makes antibodies ideal for use in many applications including: ELISAs, multiplex assays requiring matched pairs, mass cytometry, and multiplex imaging applications. Antibody use should be optimized by the end user for each application and assay.

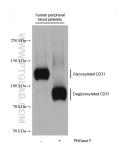
Background Information

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).

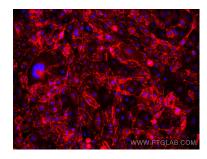
Storage

Storage: Store at -80°C. Storage Buffer: PBS Only

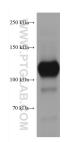
Selected Validation Data



Untreated and PNGase F-treated lysates of human peripheral blood platelets were subjected to SDS PAGE followed by western blot with 66065-2-lg (CD31 antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours. PNGase F was obtained from Atagenix (cat.NO. ata808). This data was developed using the same antibody clone with 66065-2-PBS in a different storage buffer formulation.



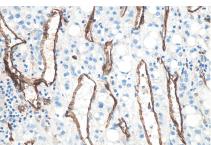
Immunofluorescent analysis of (4% PFA) fixed HUVEC cells using CD31 antibody (66065-2-lg, Clone: 3F8E2) at dilution of 1:1000 and Multi-rAb CoraLite® Plus 594-Goat Anti-Mouse Recombinant Secondary Antibody (H+L) (Cat.NO. RGAM004). This data was developed using the same antibody clone with 66065-2-PBS in a different storage buffer formulation.



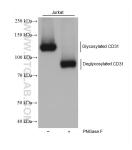
human peripheral blood platelets were subjected to SDS PAGE followed by western blot with 66065-2-lg (CD31 antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 66065-2-PBS in a different storage buffer formulation.



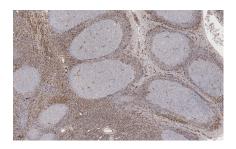
Immunohistochemical analysis of paraffinembedded human liver cancer tissue slide using 66065-2-lg (CD31 antibody) at dilution of 1:10000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 66065-2-PBS in a different storage buffer formulation



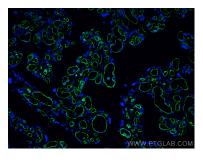
Immunohistochemical analysis of paraffinembedded human liver cancer tissue slide using 66065-2-lg (CD31 antibody) at dilution of 1:10000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 66065-2-PBS in a different storage buffer formulation



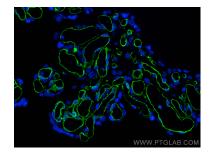
Untreated and PNGase F-treated lysates of Jurkat cells were subjected to SDS PAGE followed by western blot with 66065-2-Ig (CD31 antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 66065-2-PBS in a different storage buffer formulation.



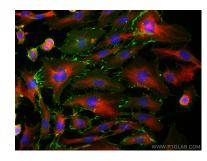
Immunohistochemical analysis of paraffinembedded human tonsillitis tissue slide using 66065-2-lg (CD31 antibody) at dilution of 1:10000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 66065-2-PBS in a different storage buffer formulation.

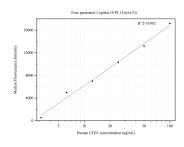


Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded human placenta tissue using CD31 antibody (66065-2-lg, Clone: 3F8E2) at dilution of 1:800 and Coralite® 488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L) (SA00013-1). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 66065-2-PBS in a different storage buffer formulation.



Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded human placenta tissue using CD31 antibody (66065-2-lg, Clone: 3F8E2) at dilution of 1:800 and Coralite® 488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L) (SA00013-1). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 66065-2-PBS in a different storage buffer formulation.





Immunofluorescent analysis of (-20°C Ethanol) fixed HUVEC cells using CD31 antibody (66065-2-Ig, Clone: 3F8E2) at dilution of 1:2000 and MultirAb Coralite ® Plus 488-Goat Anti-Mouse Recombinant Secondary Antibody (H+L) (RGAM002), Beta Tubulin antibody (80713-1-RR, Clone: 2013, red). This data was developed using the same antibody clone with 66065-2-PBS in a different storage buffer formulation.

Cytometric bead array standard curve of MP50319-2, CD31 Monoclonal Matched Antibody Pair, PBS Only. Capture antibody: 66065-2-PBS. Detection antibody: 66065-5-PBS. Standard:Ag1787. Range: 3.125-200 ng/mL