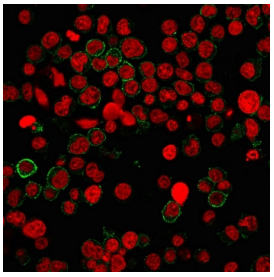
CD31 Antibody / PECAM-1 [clone PECAM1/3540] (V8008)

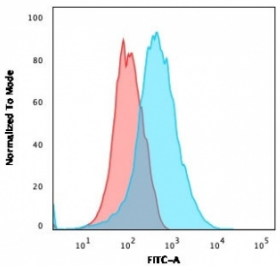
Catalog No.	Formulation	Size
V8008-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V8008-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V8008SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

Bulk quote request

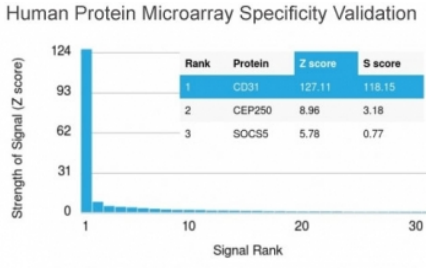
Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG2b, kappa
Clone Name	PECAM1/3540
Purity	Protein G affinity chromatography
UniProt	P16284
Localization	Cell surface, cytoplasmic
Applications	Flow Cytometry : 1-2ug/10^6 cells in 0.1ml Immunofluorescence : 1-2ug/ml
Limitations	This CD31 antibody is available for research use only.



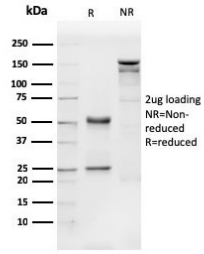
Immunofluorescent staining of human Jurkat cells with CD31 antibody (green, clone PECAM1/3540) and Reddot nuclear stain (red).



Flow cytometry testing of human Jurkat cells with CD31 antibody (clone PECAM1/3540); Red=isotype control, Blue= CD31 antibody.



Analysis of HuProt(TM) microarray containing more than 19,000 full-length human proteins using CD31 antibody (clone PECAM1/3540). These results demonstrate the foremost specificity of the PECAM1/3540 mAb. Z- and S- score: The Z-score represents the strength of a signal that an antibody (in combination with a fluorescently-tagged anti-IgG secondary Ab) produces when binding to a particular protein on the HuProt(TM) array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If the targets on the HuProt(TM) are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-scores. The S-score therefore represents the relative target specificity of an Ab to its intended target.



SDS-PAGE analysis of purified, BSA-free CD31 antibody (clone PECAM1/3540) as confirmation of integrity and purity.

Description

CD31 (PECAM-1) is a transmembrane glycoprotein member of the immunoglobulin supergene family of adhesion molecules. CD31 is expressed by stem cells of the hematopoietic system and is primarily used to identify and concentrate these cells for experimental studies as well as for bone marrow transplantation. Anti-CD31 has shown to be highly specific and sensitive for vascular endothelial cells. Staining of nonvascular tumors (excluding hematopoietic neoplasms) is rare. CD31 MAb reacts with normal, benign, and malignant endothelial cells which make up blood vessel lining. The level of CD31 expression can help to determine the degree of tumor angiogenesis, and a high level of CD31 expression may imply a rapidly growing tumor and potentially a predictor of tumor recurrence.

Application Notes

Optimal dilution of the CD31 antibody should be determined by the researcher.

Immunogen

A recombinant human partial protein (amino acids 625-738) was used as the immunogen for the CD31 antibody.

Storage

Store the CD31 antibody at 2-8oC (with azide) or aliquot and store at -20oC or colder (without azide).