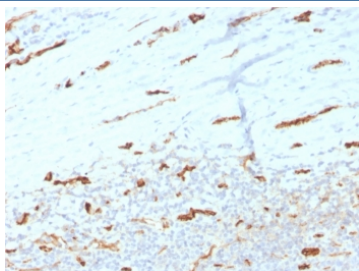


PECAM1 Antibody / CD31 [clone PECAM1/3534] (V8845)

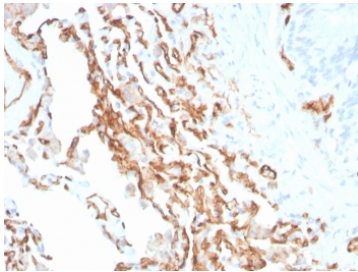
Catalog No.	Formulation	Size
V8845-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	100 ug
V8845-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	20 ug
V8845SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

[Bulk quote request](#)

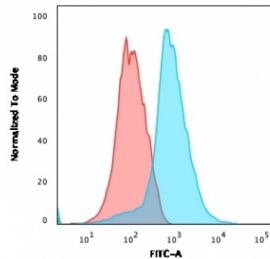
Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Mouse
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG2b, kappa
Clone Name	PECAM1/3534
Purity	Protein A/G affinity
UniProt	P16284
Localization	Cell surface and cytoplasm of endothelial cells
Applications	Flow Cytometry : 1-2ug/million cells Immunofluorescence : 1-2ug/ml Western Blot : 1-2ug/ml Immunohistochemistry (FFPE) : 1-2ug/ml
Limitations	This PECAM1 antibody is available for research use only.



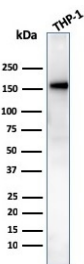
IHC staining of FFPE human tonsil tissue with PECAM1 antibody (clone PECAM1/3534).
HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 20 min and allow to cool before testing.



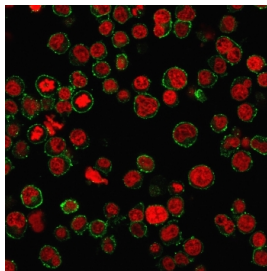
IHC staining of FFPE human colon tissue with PECAM1 antibody (clone PECAM1/3534).
 HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 20 min and allow to cool before testing.



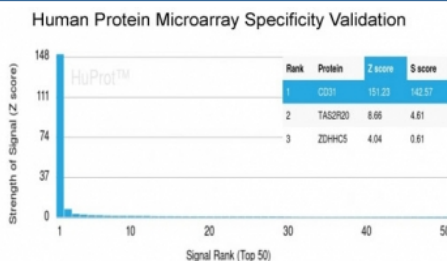
FACS staining of human Jurkat cells with PECAM1 antibody (blue, clone PECAM1/3534) and isotype control (red).



Western blot testing of human THP-1 cell lysate using PECAM1 antibody (clone PECAM1/3534). Expected molecular weight: 83-130 kDa depending on level of glycosylation.



Immunofluorescent staining of human Jurkat cells using PECAM1 antibody (green, clone PECAM1/3534) and RedDot (red).



Analysis of HuProt(TM) microarray containing more than 19,000 full-length human proteins using CD31 antibody (clone PECAM1/3534). These results demonstrate the foremost specificity of the PECAM1/3534 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.

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 PECAM1 antibody should be determined by the researcher.

Immunogen

A portion of amino acids 625-738 was used as the immunogen for the PECAM1 antibody.

Storage

Aliquot the PECAM1 antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.