

Product Datasheet

CD31 Antibody / PECAM-1 (orb1151843)

Description	Mouse monoclonal antibody to CD31
Species/Host	Mouse
Reactivity	Human
Conjugation	Unconjugated
Tested Applications	FACS, IF, IHC-P, WB
Immunogen	A portion of amino acids 625-738 was used as the immunogen for the PECAM1 antibody.
Preservatives	0.2 mg/ml in 1X PBS with 0.1 mg/ml rAlbumin (US sourced), 0.05% sodium azide
Storage	Aliquot the PECAM1 antibody and store frozen at -20°C or colder. Avoid repeated freeze-thaw cycles.
Note	For research use only
Application notes	Optimal dilution of the PECAM1 antibody should be determined by the researcher.
Formula	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide
Isotype	Mouse IgG2b, kappa
Clonality	Monoclonal
Clone Number	PECAM1/3534
Purity	Protein A/G affinity
Uniprot ID	P16284
Hazard Information	This PECAM1 antibody is available for research use only.

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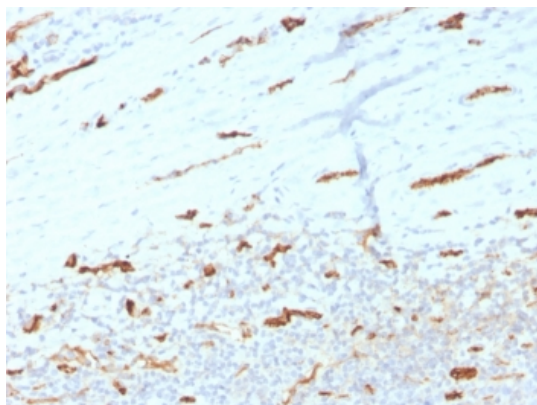
68 TW Alexander Drive,
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Dilution Range

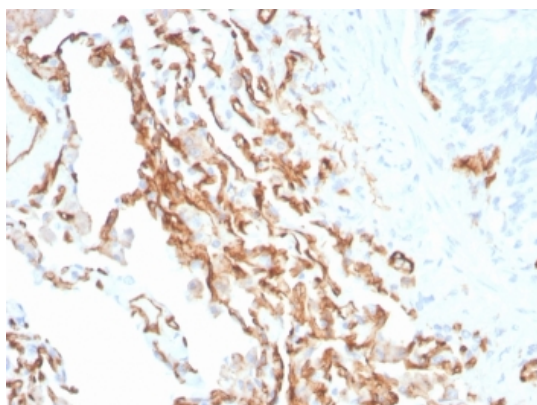
Flow cytometry: 1-2ug/million cells, Immunofluorescence: 1-2ug/ml, Western blot: 1-2ug/ml, Immunohistochemistry (FFPE): 1-2ug/ml

Expiration Date

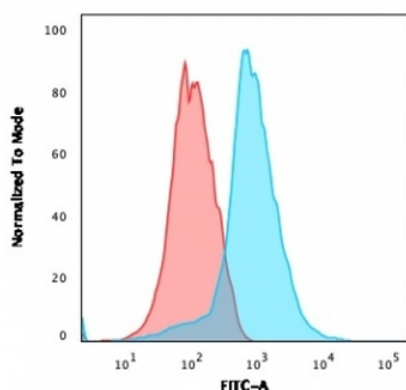
12 months from date of receipt.



IHC staining of FFPE human tonsil tissue with PECAM1 antibody (clone PECAM1/3534). HIERS: boil tissue sections in pH9 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). HIERS: boil tissue sections in pH9 10mM Tris with 1mM EDTA for 20 min and allow to cool before testing.



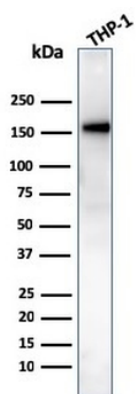
FACS staining of human Jurkat cells with PECAM1 antibody (blue, clone PECAM1/3534) and isotype control (red).

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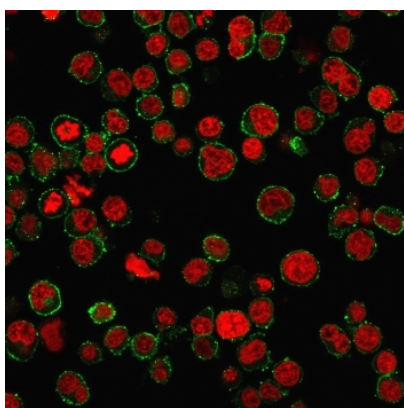
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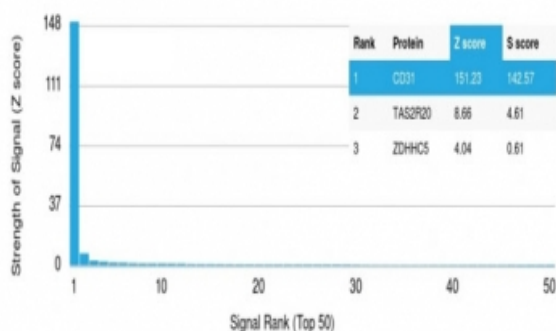


Western blot testing of human THP-1 cell lysate using PECAM1 antibody (clone PECAM1/3534). Expected molecular weight: 83-130 kDa depending on level of glycosylation.



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

Human Protein Microarray Specificity Validation



Analysis of HuProt (TM) microarray containing more than 19000 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.

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