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36-2917: Anti-CD31 / PECAM-1 (Endothelial Cell Marker) Monoclonal Antibody(Clone: PECAM1/3540)

Clonality :	Monoclonal
Clone Name :	PECAM1/3540
Application :	FACS,IF
Reactivity :	Human
Gene :	PECAM1
Gene ID :	5175
Uniprot ID :	P16284
Alternative Name :	EndoCAM; PECA1; Platelet Endothelial Cell Adhesion Molecule 1; GPIIA'
Isotype :	Mouse IgG2b, kappa
Immunogen Information :	Recombinant fragment (around aa 625-738) of human CD31 protein (exact sequence is proprietary)

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.

Product Info

Amount :	20 µg / 100 µg
Content :	200 µg/ml of Ab Purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.
Storage condition :	Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody is stable for 24 months. Non-hazardous.

Application Note

Flow Cytometry (1-2ug/million cells); Immunofluorescence (1-2ug/ml);,

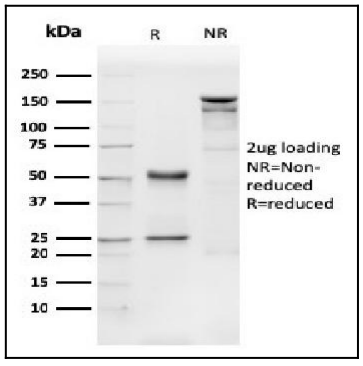

Fig. 1: SDS-PAGE Analysis Purified CD31 Mouse Monoclonal Antibody (PECAM1/3540).Confirmation of Integrity and Purity of Antibody.

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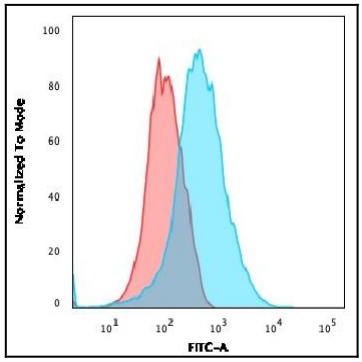

Fig. 2: Flow Cytometric Analysis of Jurkat cells using CD31 Mouse Monoclonal Antibody (PECAM1/3540) followed by goat anti-Mouse IgG-CF488 (Blue); Isotype Control (Red).

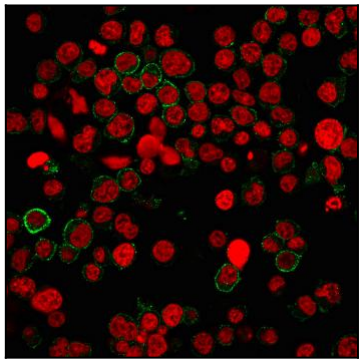

Fig. 3: Immunofluorescence staining of Jurkat cells using CD31 Mouse Monoclonal Antibody (PECAM1/3540) followed by goat anti-Mouse IgG conjµgated to CF488 (green). Nuclei are stained with Reddot.

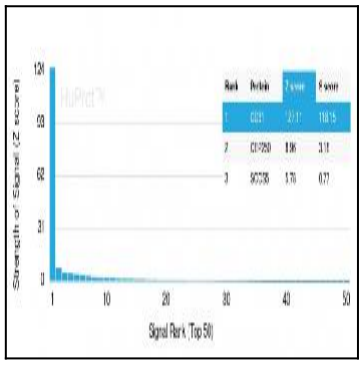

Fig. 4: Analysis of Protein Array containing more than 19,000 full-length human proteins using CD31 Mouse Monoclonal Antibody (PECAM1/3540) Z- and S- Score: The Z-score represents the strength of a signal that a monoclonal antibody (MAb) (in combination with a fluorescently-tagged anti-IgG secondary antibody) produces when binding to a particular protein on the HuProtTM array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If targets on HuProtTM are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-score. S-score therefore represents the relative target specificity of a MAb to its intended target. A MAb is considered to specific to its intended target, if the MAb has an S-score of at least 2.5. For example, if a MAb binds to protein X with a Z-score of 43 and to protein Y with a Z-score of 14, then the S-score for the binding of that MAb to protein X is equal to 29.