9853 Pacific Heights Blvd.
Suite D. San Diego,
CA 92121, USA
Tel: 858-263-4982
Email: info@abeomics.com

36-2922: Anti-CD31 / PECAM-1 (Endothelial Cell Marker) Monoclonal Antibody(Clone: C31/1395R)

Clonality :	Monoclonal
Clone Name :	C31/1395R
Application :	WB,FACS,IHC
Reactivity :	Human
Gene :	PECAM1
Gene ID :	5175
Uniprot ID :	P16284
Alternative Name :	EndoCAM; PECA1; Platelet Endothelial Cell Adhesion Molecule 1; GPIIA'
Isotype :	Rabbit IgG
Immunogen Information :	Recombinant full-length human CD31 protein

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 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

Western Blot (1-2ug/ml); Flow Cytometry (1-2ug/million cells); Immunohistochemistry (Formalin-fixed) (1-2ug/ml for 30 minutes at RT)(Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95&degC followed by cooling at RT for 20 minutes)

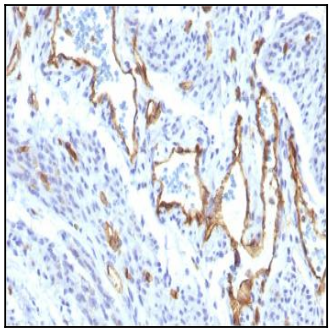


Fig. 1: Formalin-fixed, paraffin-embedded human Angiosarcoma stained with CD31-Monospecific Recombinant Rabbit Monoclonal Antibody (C31/1395R).

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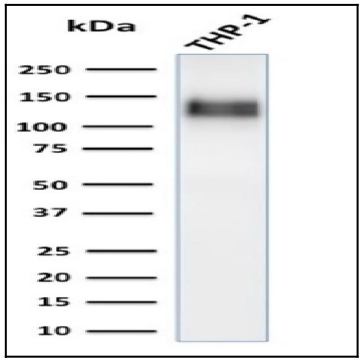


Fig. 2: Western Blot Analysis of human THP-1 cell lysate using CD31-Monospecific Recombinant Rabbit Monoclonal Antibody (C31/1395R).

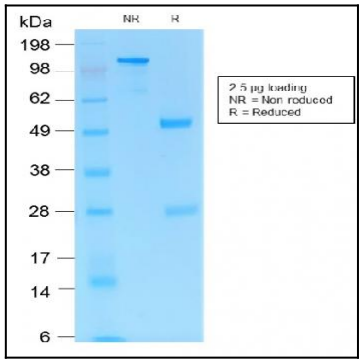


Fig. 3: SDS-PAGE Analysis Purified CD31-Monospecific Recombinant Rabbit Monoclonal Antibody (C31/1395R). Confirmation of Integrity and Purity of Antibody.

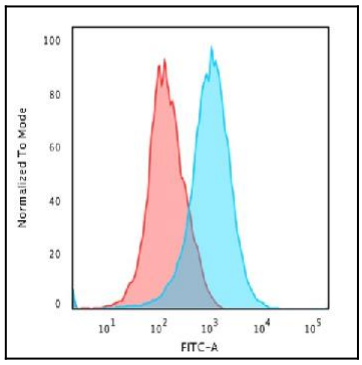


Fig. 4: Flow Cytometric Analysis of paraformaldehyde-fixed Jurkat cells using CD31-Monospecific Recombinant Rabbit Monoclonal Antibody (C31/1395R).followed by goat anti-rabbit- IgG-CF488 (Blue); Isotype Control (Red).

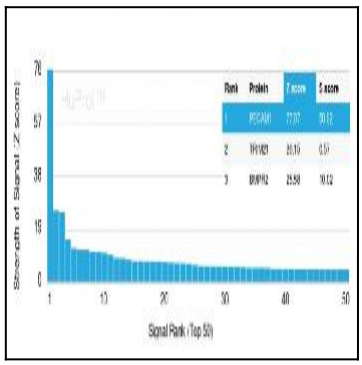


Fig. 5: Analysis of Protein Array containing more than 19,000 full-length human proteins using CD31-Monospecific Recombinant Rabbit Monoclonal Antibody (C31/1395R) Z- and S- Score: The Z-score represents the strength of a signal that a monoclonal antibody (MAb) (in combination with a fluorescently-tagged 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.

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