

Anti-CD31 / PECAM-1 (Endothelial Cell Marker) Monoclonal Antibody

Catalog Number: M01513

About PECAM1

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.

Overview

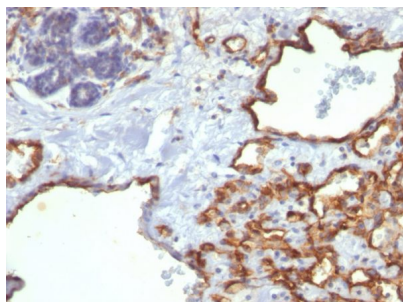
Product Name	Anti-CD31 / PECAM-1 (Endothelial Cell Marker) Monoclonal Antibody
Reactive Species	Cynomolgus monkey, Human, Rabbit
Description	Boster Bio Anti-CD31 / PECAM-1 (Endothelial Cell Marker) Monoclonal Antibody (Catalog # M01513). Tested in Flow Cytometry, IF, WB, IHC applications. This antibody reacts with Human, Cynomolgus monkey, Rabbit.
Conjugate	Biotin
Application	Flow Cytometry, IF, IHC, WB
Clonality	Monoclonal Clone: SPM122
Formulation	Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.
Storage Instructions	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. No MSDS required.
Host	Mouse
Uniprot ID	P16284

Technical Details

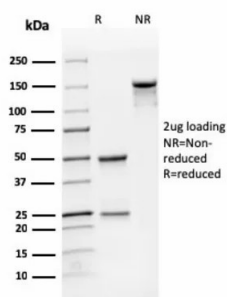
Immunogen	Membrane preparation of a spleen from a patient with hairy cell leukemia
Predicted Reactive Species	Pig, Rabbit
Cross Reactivity	Does not cross-react with primate, avian or amphibian GR.
Isotype	IgG1, kappa
Form	Liquid

Concentration	Purified antibody with BSA and azide at 200ug/ml
Purification	200ug/ml of antibody purified from Bioreactor Concentrate by Protein A/G.
Suggested Dilutions	<p>Dilute the sample so that the expected range of concentrations fall within the detection range of this kit.</p> <p>If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples.</p> <p>Some PubMed article(s) citing the expression level of this target are as follows:</p> <p>Boster Bio's internal QC testing used:</p> <p>Flow Cytometry (1-2ug/million cells)</p> <p>Immunofluorescence (1-2ug/ml)</p> <p>Western Blot (1-2ug/ml)</p> <p>Immunohistochemistry (Formalin-fixed) (1-2ug/ml for 30 minutes at RT) (Staining of formalin-fixed tissues requires heating tissue sections in 1mM EDTA, pH 7.5-8.5, for 45 min at 95&degC followed by cooling at RT for 20 minutes)</p> <p>Optimal dilution for a specific application should be determined.</p>

Anti-CD31 / PECAM-1 (Endothelial Cell Marker) Monoclonal Antibody (M01513) Images



Formalin-fixed, paraffin-embedded human Angiosarcoma stained with Anti-CD31 Monoclonal Antibody (SPM122)



SDS-PAGE analysis of Anti-CD31 Antibody [SPM122] under non-reduced and reduced conditions; showing intact IgG and intact heavy and light chains, respectively. SDS-PAGE analysis confirms the integrity and purity of the antibody.

17 Publications Citing This Product

1. PubMed ID: 10.3892/ijo.2020.5082, miR-126 regulates the progression of epithelial ovarian cancer in vitro and in vivo by targeting VEGFA
2. PubMed ID: 10.3892/etm.2014.1774, Construction of tissue-engineered bone using a bioreactor and platelet-rich plasma
3. PubMed ID: 10.1016/j.wneu.2019.01.085, Relationship Between Apoptosis of Endplate Microvasculature and Degeneration of the Intervertebral Disk

Visit [bosterbio.com/anti-cd31-pecam-1-endothelial-cell-marker-antibody-m01513-boster.html](https://www.bosterbio.com/anti-cd31-pecam-1-endothelial-cell-marker-antibody-m01513-boster.html) to see all 17 publications.

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