

Anti-CD31/PECAM-1 Antibody (8085)

Product Details

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| Ig Type: | Mouse IgG1 |
| Reactivity: | Human |
| Conjugation: | Unconjugated |
| Clone: | 8085 |
| Purification: | Protein A |

Applications

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| Verified Activity: | <p>1. Immunofluorescence staining of Human CD31 in HUVEC cells. Cells were fixed with 4% PFA, blocked with 10% serum, and incubated with Mouse anti-Human CD31 monoclonal antibody (1:60) at 37°C 1 hour. Then cells were stained with the Alexa Fluor®488-conjugated Goat Anti-mouse IgG secondary antibody. Positive staining was localized to cell membrane.</p> <p>2. Flow cytometric analysis of anti-human CD31 on human whole blood monocytes. The fluorescence histograms were derived from events with the forward and side light-scatter characteristics of viable monocytes.</p> |
| Application: | FCM,ICC/IF |
| Recommended | ICC-IF: 1:20-1:100; FCM: 1:25-1:100 |

Properties

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| Stability & Storage: | Store at 2°C-8°C for 1 month. Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles. Preservative-Free. |
| Shipping: | Shipping with blue ice. |

Antigen Details

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| Immunogen: | Recombinant Protein: Human CD31 protein (TMPY-00970) |
| Antigen Species: | Human |
| Synonyms: | PECAM-1;Cd31;platelet/endothelial cell adhesion molecule 1;Pecam;C85791 |
| Biology Area: | Hemangioblast Markers, ITIM/ITAM Immunoreceptors and Related Molecules |

Research Background

The Cluster of Differentiation 31 (CD31) adhesion molecule, also known as platelet-endothelial cell adhesion molecule-1 (PECAM-1), is the only known member of the CAM family on platelets. CD31 protein is a 130-kDa transmembrane glycoprotein expressed by endothelial cells, platelets, monocytes, neutrophils, and certain T cell subsets. CD31 protein is also expressed in certain tumors, including epithelioid hemangioendothelioma, other vascular tumors, and histiocytic malignancies. CD31 plays a key role in removing aged neutrophils and tissue regeneration. CD31 protein mediates the homotypic or heterotypic cell adhesion by binding to itself or the leukocyte integrin $\alpha\beta_3$, and thus plays a role in neutrophil recruitment in inflammatory responses, transendothelial migration of leukocytes, as well as in cardiovascular development.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481