

# Recombinant Human Platelet/Endothelial Cell Adhesion Molecule

**Cat. No.** PECAM1-4262H    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
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| <b>Product Overview</b> | CD31 Human Recombinant (aa 625-739) expressed in E.coli, shows a 38 kDa band on SDS-PAGE. The CD31 is purified by proprietary chromatographic techniques.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Source</b>           | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>ProteinLength</b>    | 625-739 a.a.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Description</b>      | CD31 is a glycoprotein expressed on endothelial cells, platelets, macrophages and Kupffer cells, granulocytes, T / NK cells, lymphocytes, megakaryocytes, fibroblasts, osteoclasts, neutrophils. In humans, the gene encoding CD31 is found on chromosome 17. CD31 is a cluster of differentiation molecule. It is also called PECAM-1 for platelet endothelial cell adhesion molecule. It plays a key role in removing aged neutrophils from the body. Both the neutrophil and the macrophage express CD31 on their membranes, and during the testing process, these CD31 molecules bind the two cells together. If the neutrophil is healthy, it will send a signal to the macrophage, and the CD31 molecules will detach. CD31 is also expressed in certain tumors, including epithelioid hemangioendothelioma, epithelioid sarcoma-like hemangioendothelioma, other vascular tumors, histiocytic malignancies, and plasmacytomas. It is rarely found in some sarcomas and carcinomas. |
| <b>Form</b>             | CD31 at 100g/ml in 50mM Tris-Acetate, pH7.5, 1mM EDTA and 20% Glycerol.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |

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|----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Physical Appearance</b> | Sterile Filtered clear solution.                                                                                                                                                                                       |
| <b>Storage</b>             | Store vial at -20°C to -80°C. When stored at the recommended temperature, this protein is stable for 12 months. Please prevent freeze-thaw cycles.                                                                     |
| <b>GENE INFORMATION</b>    |                                                                                                                                                                                                                        |
| <b>Gene Name</b>           | PECAM1 platelet/endothelial cell adhesion molecule [ Homo sapiens ]                                                                                                                                                    |
| <b>Official Symbol</b>     | PECAM1                                                                                                                                                                                                                 |
| <b>Synonyms</b>            | PECAM1; CD31; PECAM-1; CD31 antigen; CD31/EndoCAM; adhesion molecule; GPIIA"; CD31 antigen; adhesion molecule; platelet/endothelial cell adhesion molecule; platelet/endothelial cell adhesion molecule (CD31 antigen) |
| <b>Gene ID</b>             | 5175                                                                                                                                                                                                                   |
| <b>mRNA Refseq</b>         | NM_000442                                                                                                                                                                                                              |
| <b>Protein Refseq</b>      | NP_000433                                                                                                                                                                                                              |
| <b>MIM</b>                 | 173445                                                                                                                                                                                                                 |
| <b>UniProt ID</b>          | P16284                                                                                                                                                                                                                 |
| <b>Chromosome Location</b> | 17q23                                                                                                                                                                                                                  |
| <b>Pathway</b>             | Cell adhesion molecules (CAMs); Leukocyte transendothelial migration; Hemostasis; Signaling in Immune system                                                                                                           |
| <b>Function</b>            | protein binding                                                                                                                                                                                                        |

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