

## 32-9003: Recombinant Mouse Platelet Endothelial Cell Adhesion Molecule/CD31/PECAM-1 (C-6His)(Discontinued)

**Gene :** Pecam1  
**Gene ID :** 18613  
**Uniprot ID :** Q08481

### Description

Source: Human Cells.

MW :63.4kD.

Recombinant Mouse Platelet Endothelial Cell Adhesion Molecule is produced by our Mammalian expression system and the target gene encoding Glu18-Lys590 is expressed with a 6His tag at the C-terminus. Platelet endothelial cell adhesion molecule (PECAM-1, CD31) is a type I transmembrane glycoprotein adhesion molecule in the immunoglobulin superfamily. PECAM-1 is concentrated at cell junctions and is required for transendothelial migration (TEM). The extracellular domain (ECD) of PECAM-1 has ten potential N-linked glycosylation sites and six C2-type Ig-like domains, the first of which is critical for adhesion and extravasation. The cytoplasmic domain contains immunoregulatory tyrosine-based inhibitory and switch motifs (ITIM, ITSM) that mediate both inhibition and activation via phosphotyrosine-mediated engagement of SH2-containing signaling molecules. Expression is restricted to cells involved in circulation, especially endothelial cells, platelets, monocytes, neutrophils and lymphocyte subsets. PECAM-1 participates with other adhesion molecules in some functions, but is the critical molecule for TEM. Homotypic PECAM-1 adhesion in trans, combined with cycling of PECAM-1 to and from surface-connected endothelial cell vesicles, leads leukocytes across endothelial tight junctions.

### Product Info

**Amount :** 10 µg / 50 µg  
**Content :** Lyophilized from a 0.2 µm filtered solution of PBS, pH7.4.  
**Storage condition :** Lyophilized protein should be stored at -20°C, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 4-7°C for 2-7 days. Aliquots of reconstituted samples are stable at -20°C for 3 months.  
**Amino Acid :** EENSFTINSIHMESLPSWEVMNGQQLTLECLVDISTTSKRSQHRVLFYKDDAMVYNVTSREHTESYVIPQARV  
FHSGKYKCTVMLNNKEKTTIEYEVKVHGVSKPKVTLDDKKEVTEGGVVTVNCSLQEEKPPIFFKIEKLEVGTKFVK  
RRIDKTSNENFVLMFPIEAQDHVLFVRCQAGILSGFKLQSEPIRSEYVTVQESFSTPKFEIKPPGMIIEGDQLHI  
RCIVQVTHLVQEFTEIIQKDKAIVATSKQSSEAVYSVMAMVEYSGHYTCKVESNRISKASSIMVNITELFPKPKLE  
FSSRLDQGELDLSCSVSGTPVANFTIQKEETVLSQYQNFASKIAEESDSGEYSCTAGIGKVVKRSGLVPIQVCE  
MLSKPSIFHDAKSEIIKGHAIGSCQSENGTAPITYHLMKAKSDFQTLEVTSDNPATFTDKPTRDMEYQCRADNC  
HSHPAVFSEILRVRVIAPVDEVVISILSSNEVQSGSEMLRCSVKEGTSPITFQFYKEKEDRPFHQAVVNDTQAF  
WHNKQASKKQEGQYYCTASNRASSMRTSPRSSTLAVRVFLAPWKKHHHHHHH

### Application Note

**Endotoxin :** Less than 0.1 ng/Åµg (1 IEU/Åµg) as determined by LAL test.