

## Recombinant Human Platelet Endothelial Cell Adhesion Molecule/PECAM-1/CD31 Protein(C-6His)

## Cat.NO.: TP04672

3th Edition

Synonyms: Platelet endothelial cell adhesion molecule; PECAM-1; EndoCAM; GPIIA; PECA1; CD31; PECAM1

**Description:**Platelet Endothelial Cell Adhesion Molecule (PECAM1, CD31), is a heavily glycosylated transmembrane protein belonging to the immunoglobulin (Ig) superfamily of cell adhesion molecules. CD31 is composed of an extracellular domain (ECD) of 574 amino acids (aa) containing six Ig-like domains, a transmembrane domain, and a 118 aa cytoplasmic domain. CD31 is highly expressed on endothelial cells and at a lower level on platelets, granulocytes, macrophages, dendritic cells, T and B cells, and natural killer (NK) cells. It is involved in cell adhesion and is required for transpetithelial migration of leukocytes (TEM). CD31 acts as a homophilic receptor through its extracellular domain and is involved in downstream signaling via its cytoplasmic domain. This domain contains highly conserved ITIM motifs which, once tyrosine phosphorylated, recruit and activate the signaling molecules Src and SHP2. The resulting inhibition of TCR signaling increases the activation threshold of T cells, thus reinforcing peripheral tolerance and preventing development of autoimmunity. CD31 additionally regulates immune responses by acting as a key inhibitory receptor in dendritic cell development. CD31 is required for the transpose by acting as a key inhibitory receptor in dendritic cell development. CD31 is required for the transpose by acting as a key inhibitory receptor in dendritic cell development. CD31 is required for the transpose by acting as a key inhibitory receptor in dendritic cell development.

Form:PBS

Molecular Weight:65.3 kDa

Sequences:Gln28-Lys601

Purity:> 95% by HPLC

**Concentration:** 

Endotoxin Level:<1.0 EU per 1 ug of protein (determined by LAL method)

**Storage:**Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.