

## 32-20600: Recombinant Human PECAM-1(Discontinued)

**Alternative Name :** Platelet endothelial cell adhesion molecule, CD31 antigen, EndoCAM

### Description

#### Source:HEK293 cells

PECAM is transmembrane glycoprotein that belongs to the Ig-related superfamily of adhesion molecules. It is highly expressed at endothelial cell junctions, and is also expressed in platelets and most leukocyte sub-types. The primary function of PECAM-1 is the mediation of leukocyte-endothelial cell adhesion and signal transduction. PECAM-1 has been implicated in the pathogenesis of various inflammation-related disorders, including thrombosis, multiple sclerosis (MS), and rheumatoid arthritis. The human PECAM-1 gene codes for a 738 amino acid transmembrane glycoprotein that contains a 118 amino acid cytoplasmic domain, a 19 amino acid transmembrane domain, and a 574 amino acid extracellular domain. Recombinant Human PECAM-1 is a 572 amino acid glycoprotein comprising the extracellular domain of PECAM-1. Monomeric glycosylated PECAM-1 migrates at an apparent molecular weight of approximately 80.0-95.0 kDa by SDS-PAGE analysis under reducing conditions. The calculated molecular weight of Recombinant Human PECAM-1 is 64.3 kDa.

### Product Info

**Amount :** 10 µg / 50 µg

**Purification :** Purity: >= 97% by SDS-PAGE gel and HPLC analyses.

**Content :** This recombinant protein is supplied in lyophilized form.

**Amino Acid :** ENSFTINSV DMKSLPDWTV QNGKNLTLQC FADVSTTSHV KPQHQMLFYK DDVLFYNISS  
MKSTESYFIP EVRIYDSGT Y KCTVIVNNKE KTTAEYQLLV EGVPSRVTL DKKEAIQGGI  
VRVNCSPVEE KAPIHFTIEK LELNEKMKVL KREKNSRDQN FVILEFPVEE QDRVLSFRCQ  
ARIISGIHMQ TSESTKSELV TVTESFSTPK FHISPTGMIM EGAQLHIKCT IQVTHLAQEF  
PEIIQKDKA IVAHNRHGNK AVYSVMAMVE HSGNYTCKVE SSRISKVSSI VVNITELFSK  
PELESSFTHL DQGERLNLSC SIPGAPPANF TIQKEDTIVS QTQDFTKIAS KSDSGTYICT  
AGIDKVVKKS NTVQIVVCEM LSQPRISYDA QFEVIKGQTI EVRCESISGT LPISYQLLKT  
SKVLENSTKN SNDAVFKDN PTEDVEYQCV ADNCHSHAKM LSEVLRVKVI APVDEVQISI  
LSSKVVESGE DIVLQCAVNE GSGPITYKFY REKEGKPFYQ MTSNATQAFW TKQKASKEQE  
GEYYCTAFNR ANHASSVPRS KILTVRVILA PWK

### Application Note

Determined by its ability to support the adhesion of activated Jurkat cells. The expected  $ED_{50}$  for this effect is 1.0 -1.5 µg/ml.