

Human CellExp PECAM-1, Human recombinant protein
Platelet endothelial cell adhesion molecule, CD31 antigen, EndoCAM
Catalog # PBV10814r**Specification****Human CellExp PECAM-1, Human recombinant protein - Product info**

Primary Accession [P16284](#)
Calculated MW **80-95 kDa** KDa

Human CellExp PECAM-1, Human recombinant protein - Additional Info

Gene ID **5175**
Gene Symbol **PECAM1**
Other Names
Platelet endothelial cell adhesion molecule, CD31 antigen, EndoCAM

Gene Source **Human**
Source **HEK 293 cells**
Assay&Purity **SDS-PAGE; ≥97%**
Assay2&Purity2 **HPLC;**
Recombinant **Yes**
Sequence **ENSFTINSVD MKSLPDWTVQ NGKNLTLCQF
ADVSTTSHVK PQHQMLFYKD DVLFYNISSM
KSTESYFIPE VRIYDSGTYK CTIVVNNKEK
TTAEYQLLVE GVPSPRVTLT KKEAIQGGIV
RVNCSVPEEK APIHFTIEKL ELNEKMKVCLK
REKNSRDQNF VILEFPVEEQ DRVLSFRCQA
RIISGIHMQT SESTKSELVT VTESFSTPKF
HISPTGMIME GAQLHIKCTI QVTHLAQEF
EIIIQDKAI VAHNRHGNKA VYSVMAMVEH
SGNYTCKVES SRISKVSSIV VNITELFSKP
ELESSFTHLD QGERLNLSCS IPGAPPANFT
IQKEDTIVSQ TQDFTKIASK SDSGTYICTA
GIDKVVKKSN TVQIVVCEML SQPRISYDAQ
FEVIKGQTIE VRCEISGTL PISYQLLKTS
KVLENSTKNS NDPAVFKDNP TEDVEYQCVA
DNCHSHAKML SEVLRVKVIA PVDEVQISIL
SSKVESGED IVLQCAVNEG SGPITYKFYR
EKEGKPFYQM TSNATQAFWT QQKASKEQEG
EYYCTAFNRA NHASSVPRSK ILTVRVILAP WK**

Target/Specificity
PECAM1

Application Notes

Centrifuge the vial prior to opening. Reconstitute in water to a concentration of 0.1-1.0 mg/ml. Do not vortex. This solution can be stored at 2-8°C for up to 1 week. For extended storage, it is recommended to further dilute in a buffer containing a carrier protein (example 0.1% BSA) and store in working aliquots at -20°C to -80°C.

Format

Lyophilized powder

Storage

-20°C; Sterile filtered through a 0.2 micron filter. Lyophilized from 10 mM Sodium phosphate, pH 7.5

Human CellExp PECAM-1, Human recombinant protein - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Human CellExp PECAM-1, Human recombinant protein - Images**Human CellExp PECAM-1, Human recombinant protein - Background**

PECAM is transmembrane glycoprotein that belongs to the Ig-related superfamily of adhesion molecules. It is highly expressed at endothelial cell junctions, and also expressed in platelets and in 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 containing 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.

Human CellExp PECAM-1, Human recombinant protein - References

Simmons D.L., et al. J. Exp. Med. 171:2147-2152(1990).
Stockinger H., et al. J. Immunol. 145:3889-3897(1990).
Newman P.J., et al. Science 247:1219-1222(1990).
Albelda S.M., et al. J. Cell Biol. 114:1059-1068(1991).
Kirschbaum N.E., et al. Blood 84:4028-4037(1994).