PECAM-1 Human HEK293 cells

Product Data Sheet

Type: Recombinant
Source: HEK293 cells
Species: Human
Other names: Platelet endothelial cell adhesion molecule, EndoCAM, CD31 antigen, Leukocyte surface protein

Cat. No.:

RBG10269010	(10 µg)
RBG10269050	(50 µg)
RBG10269100	(100 µg)

Introduction to the Molecule

PECAM-1 is a newly characterized adhesion molecule that belongs to the immunoglobulin superfamily. It is a transmembrane glycoprotein with a molecular weight of approximately 130 kDa, depending on the degree of glycosylation. PECAM-1 is constitutively expressed on all vascular cells and has provided a useful immunohistochemical marker of blood vessels, particularly in the setting of angiogenesis. PECAM-1 is a sensitive and specific marker for detection of melanoma-associated angiogenesis. It may be a useful marker for early detection of tumor metastasis.

Research topic

Animal studies, Cell adhesion proteins , Oncology

Amino Acid Sequence

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ENSFTINSVD MKSLPDWTVQ NGKNLTLQCF ADVSTTSHVK PQHQMLFYKD DVLFYNISSM KSTESYFIPE VRIYDSGTYK
CTVIVNNKEK TTAEYQLLVE GVPSPRVTLD KKEAIQGGIV RVNCSVPEEK APIHFTIEKL ELNEKMVKLK REKNSRDQNF
VILEFPVEEQ DRVLSFRCQA RIISGIHMQT SESTKSELVT VTESFSTPKF HISPTGMIME GAQLHIKCTI QVTHLAQEFP
EIIIQKDKAI VAHNRHGNKA VYSVMAMVEH SGNYTCKVES SRISKVSSIV VNITELFSKP ELESSFTHLD QGERLNLSCS
IPGAPPANFT IQKEDTIVSQ TQDFTKIASK SDSGTYICTA GIDKVVKKSN TVQIVVCEML SQPRISYDAQ FEVIKGQTIE
VRCESISGTL PISYQLLKTS KVLENSTKNS NDPAVFKDNP TEDVEYQCVA DNCHSHAKML SEVLRVKVIA PVDEVQISIL
SSKVVESGED IVLQCAVNEG SGPITYKFYR EKEGKPFYQM TSNATQAFWT KQKASKEQEG EYYCTAFNRA NHASSVPRSK
ILTVRVILAP WK
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Source

HEK293 cells

Purity

97%

Biological Activity

Determined by its ability to support the adhesion of activated Jurkat cells. The expected ED50 for this effect is 1.0 -1.5 µg/ml.

Endotoxin

Endotoxin level is <0.1 ng/µg of protein (<1EU/µg).

Reconstitution

Centrifuge the vial prior to opening. Reconstitute in water to a concentration of 0.1-1.0 mg/ml. Do not vortex. 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

Storage, Stability/Shelf Life

-20°C

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