Recombinant mouse CD31/PECAM1 protein

Catalog Number: ATGP4092

PRODUCT INFORMATION

Expression system
HEK293

Domain
18-590aa

UniProt No.
Q08481

NCBI Accession No.
NP_032842.2

Alternative Names
CD31/EndoCAM, CD31, EndoCAM, GPIIA', PECA1, PECAM1, PECAM-1, Platelet endothelial cell adhesion molecule 1

PRODUCT SPECIFICATION

Molecular Weight
65.3kDa (579aa)

Concentration
0.25mg/ml (determined by Absorbance at 280nm)

Formulation
Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol

Purity
> 95% by SDS-PAGE

Endotoxin level
< 1 EU per 1ug of protein (determined by LAL method)

Tag
His-Tag

Application
SDS-PAGE

Storage Condition
Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description
CD31, also known as PECAM-1(platelet endothelial cell adhesion molecule), is a member of the immunoglobulin superfamily. It is found on the surface of platelets, monocytes, neutrophils, and some types of T-cells, and makes up a large portion of endothelial cell intercellular junctions. It plays a role in signalling and is involved in migration of monocytes and neutrophils, natural killer cells, T lymphocytes and CD34+ hematopoietic progenitor

For research use only. This product is not intended or approved for human, diagnostics or veterinary use.

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cells. Also, it is important for angiogenesis because it enables the formation of new blood vessels through the cell-cell adhesion. It may play a role in a variety of diseases, including cancer, atherosclerosis, and the nervous system diseases. Recombinant mouse CD31/PECAM-1, fused to His-tag at C-terminus, was expressed in HEK293 cell and purified by using conventional chromatography techniques.

Amino acid Sequence

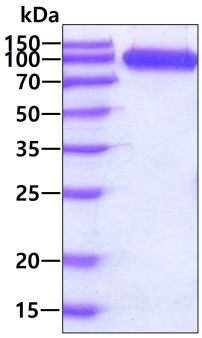
EENSFTINSI HMESLPSWEV MNGQQLTLEC LVDISTTSKS RSQHRVLFYK DDAMVYNVTS REHTESYVIP QARVFHSGKY KCTVMLNNKE KTTIEYEVKV HGVSKPKVTL DKKEVTEGGV VTVNCSLQEE KPPIFFKIEK LEVGTKFVKR RIDKTSNENF VLMEFPIEAQ DHVLVFRCQA GILSGFKLQE SEPIRSEYVT VQESFSTPKF EIKPPGMIIE GDQLHIRCIV QVTHLVQEFT EIIIQKDKAI VATSKQSSEA VYSVMAMVEY SGHYTCKVES NRISKASSIM VNITELFPKP KLEFSSSRLD QGELLDLSCS VSGTPVANFT IQKEETVLSQ YQNFSKIAEE SDSGEYSCTA GIGKVVKRSG LVPIQVCEML SKPSIFHDAK SEIIKGHAIG ISCQSENGTA PITYHLMKAK SDFQTLEVTS NDPATFTDKP TRDMEYQCRA DNCHSHPAVF SEILRVRVIA PVDEVVISIL SSNEVQSGSE MVLRCSVKEG TSPITFQFYK EKEDRPFHQA VVNDTQAFWH NKQASKKQEG QYYCTASNRA SSMRTSPRSS TLAVRVFLAP WKK<HHHHHH>

General References

DeLisser HM., et al, (1997) Am J Pathol. 151:671-677.
Albelda SM., et al, (1991) J Cell Biol. 114:1059–1068.
Elias CG., et al, (1998) European Journal of Immunology. 28:1948–1958.

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain