

# Recombinant mouse CD31/PECAM1 protein

Catalog Number: ATGP4092

## PRODUCT INFORMATION

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### 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

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### 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

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### 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

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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

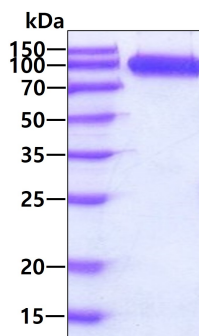
EENSFTINSI HMESLPSWEV MNGQQLTLEC LVDISTTSKS RSQHRVLFYK DDAMVYNVTS REHTESYVIP QARVFHSGKY  
KCTVMLNKE KTTIEYEVKV HGVSKPKVTL DKKEVTEGGV VTVNCSLQEE KPPIFFKIEK LEVGTKFVKR RIDKTSNENF  
VLMEFPPIEAQ DHVLVFRCA GILSGFKLQE SEPIRSEYVT VQESFSTPKF EIKPPGMIIE GDQLHIRCIV QVTHLVQEFT  
EIIIQDKAI VATSKQSEA VYSVMAMVEY SGHYTCKVES NRISKASSIM VNITELFPKP KLEFSSSRDL QGELLDLSCS  
VSGTPVANFT IQKEETVLSQ YQNFSKIAEE SDSGEYSCTA GIGKVVKRSR LVPIQVCEML SKPSIFHDAK SEIKGHAIG  
ISCQSENGTA PITYHLMKAK SDFQTLEVTS NDPATFTDKP TRDMEYQCRA DNCHSHPAVF SEILRVRVIA PVDEVVISIL  
SSNEVQSGSE MVLRCVKEG 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



3 $\mu$ g by SDS-PAGE under reducing condition and visualized by coomassie blue stain