

## CD31/PECAM-1 Protein, Human (HEK293, His)

<b>Cat. No.:</b>	HY-P72490
<b>Synonyms:</b>	Platelet endothelial cell adhesion molecule; PECAM-1; EndoCAM; GPIIA; PECA1; CD31; PECAM1
<b>Species:</b>	Human
<b>Source:</b>	HEK293
<b>Accession:</b>	P16284-1 (Q28-K601)
<b>Gene ID:</b>	5175
<b>Molecular Weight:</b>	75-110 kDa

### PROPERTIES

#### AA Sequence

Q E N S F T I N S V	D M K S L P D W T V	Q N G K N L T L Q C	F A D V S T T S H V
K P Q H Q M L F Y K	D D V L F Y N I S S	M K S T E S Y F I P	E V R I Y D S G T Y
K C T V I V N N K E	K T T A E Y Q V L V	E G V P S P R V T L	D K K E A I Q G G I
V R V N C S V P E E	K A P I H F T I E K	L E L N E K M V K L	K R E K N S R D Q N
F V I L E F P V E E	Q D R V L S F R C Q	A R I I S G I H M Q	T S E S T K S E L V
T V T E S F S T P K	F H I S P T G M I M	E G A Q L H I K C T	I Q V T H L A Q E F
P E I I I Q K D K A	I V A H N R H G N K	A V Y S V M A M V E	H S G N Y T C K V E
S S R I S K V S S I	V V N I T E L F S K	P E L E S S F T H L	D Q G E R L N L S C
S I P G A P P A N F	T I Q K E D T I V S	Q T Q D F T K I A S	K S D S G T Y I C T
A G I D K V V K K S	N T V Q I V V C E M	L S Q P R I S Y D A	Q F E V I K G Q T I
E V R C E S I S G T	L P I S Y Q L L K T	S K V L E N S T K N	S N D P A V F K D N
P T E D V E Y Q C V	A D N C H S H A K M	L S E V L R V K V I	A P V D E V Q I S I
L S S K V V E S G E	D I V L Q C A V N E	G S G P I T Y K F Y	R E K E G K P F Y Q
M T S N A T Q A F W	T K Q K A S K E Q E	G E Y Y C T A F N R	A N H A S S V P R S
K I L T V R V I L A	P W K K		

**Appearance** Lyophilized powder.

**Formulation** Lyophilized from a 0.2 µm filtered solution of PBS, 1 mM EDTA, pH 7.4 .

**Endotoxin Level** <1 EU/µg, determined by LAL method.

**Reconstitution** It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH<sub>2</sub>O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).

**Storage & Stability** Stored at -20°C for 2 years from date of receipt. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.

**Shipping** Room temperature in continental US; may vary elsewhere.

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## DESCRIPTION

### Background

CD31/PECAM-1 Protein is expressed in large amounts on endothelial cells at intercellular junctions and on T cell subsets, and to a lesser extent on platelets and most other leukocytes such as monocytes and neutrophils<sup>[1][2]</sup>. CD31/PECAM-1 Protein binds to itself homotypically, and also to the leukocyte integrin alpha v beta 3 heterotypically<sup>[3]</sup>. CD31/PECAM-1 Protein is required for the transendothelial migration of leukocytes through intercellular junctions of vascular endothelial cells<sup>[4]</sup>.

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**Caution: Product has not been fully validated for medical applications. For research use only.**

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