

Human PECAM-1/CD31 ELISA Kit | PECAM1 elisa kit

Human PECAM-1/CD31 PicoKine ELISA Kit

CATALOG #
AAA45301

REACTIVITY
Human

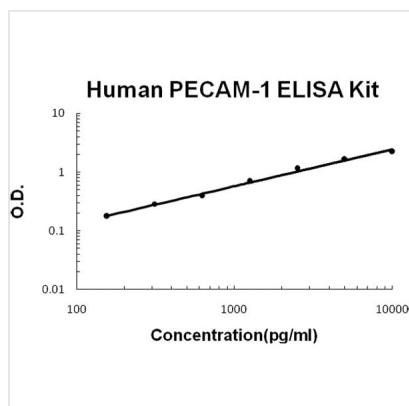
PRODUCT SYNONYMS

PECAM-1/CD31; Human PECAM-1/CD31 PicoKine ELISA Kit; Platelet endothelial cell adhesion molecule; platelet/endothelial cell adhesion molecule 1f; CD31; CD31 antigen; EndoCAM; GPIIA; HEC7; Leukocyte surface protein; PECA1; PECA1_HUMAN; PECAM 1; PECAM-1; Pecam1; Platelet/endothelial cell adhesion molecule; PECAM1 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Natural and recombinant human PECAM-1
Sequence Length	738
Samples	Cell culture supernates, serum and plasma (heparin, EDTA)
Assay Type	Sandwich
Detection Range	156pg/ml-10,000pg/ml
Sensitivity	< 10pg/ml
Intra-assay Precision	Intra-Assay Precision (Precision within an assay) Three samples of known concentration were tested on one plate to assess intra-assay precision.
Inter-assay Precision	Inter-Assay Precision (Precision between assays) Three samples of known concentration were tested in separate assays to assess inter-assay precision.
Preparation and Storage	Store at 4 degree C for 6 months, at -20 degree C for 12 months. Avoid multiple freeze-thaw cycles (Shipped with wet ice.)

IMAGES



Standard Curve (Sample)

Human PECAM-1/CD31 PicoKine ELISA Kit standard curve

ADDITIONAL INFORMATION

Related Product Information for PECAM1 elisa kit	Principle of the assay: human PECAM-1 ELISA Kit was based on standard sandwich enzyme-linked immune-sorbent assay technology. A monoclonal antibody from mouse specific for PECAM-1 has been precoated onto 96-well plates. Standards(CHO, Q28-K601) and test samples are added to the wells, a biotinylated detection polyclonal antibody from goat specific for PECAM-1 is added subsequently and then followed by washing with PBS or TBS buffer. Avidin-Biotin-Peroxidase Complex was added and unbound conjugates were washed away with PBS or TBS buffer. HRP substrate TMB was used to visualize HRP enzymatic reaction. TMB was catalyzed by HRP to produce a blue color product that changed into yellow after adding acidic stop solution. The density of yellow is proportional to the human PECAM-1 amount of sample captured in plate. Background: Human platelet/endothelial cell adhesion molecule-1 (PECAM1), an important member of the immunoglobulin gene superfamily, is widely distributed on cells of the vascular system and mediates cellular interactions through both homophilic and heterophilic adhesive mechanisms. The function of PECAM1 in vitro has begun to be understood, but its function in vivo is yet to be established.1 The PECAM1 locus is on the long arm of chromosome 17, in theregion q23-qter. To confirm this observation and obtain a more precise localization of the PECAM1 locus, fluorescence in situ hybridization was conducted. Together our data allowed assignment of the PECAM1 locus to the region 17q23.2 To examine the functional role of PECAM-1 in regulating platelet-collagen interactions, 2different approaches were applied using recombinant human PECAM-1-immunoglobulin chimeras and platelets derived from PECAM-1-deficient mice.3 PECAM-1, an integral membrane protein with an essential role in TEM, isfound in this compartment and constitutively recycles evenly along endothelial cell borders.4 The standard used inthis kit is the product of gene recombinant expression (extracellular part), consisting of 574 amino acids (Q28-K601) with the molecular weight of 64.5KDa. After glycosylating, its molecular weight changes to 90-100KDa.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	129747
NCBI GeneID	5175
UniProt Accession #	P16284; Q6LDA9; Q8TBH1; Q96RF5; Q96RF6; Q9NP65; Q9NPB7; Q9NPG9; Q9NQS9; Q9NQTO; A8K3S7; D3DU31
Molecular Weight	81,378 Da
NCBI Official Full Name	Platelet endothelial cell adhesion molecule
NCBI Official Synonym Full Names	platelet/endothelial cell adhesion molecule 1
NCBI Official Symbol	PECAM1
NCBI Official Synonym Symbols	CD31; PECA1; GPIIA'; PECAM-1; endoCAM; CD31/EndoCAM
NCBI Protein Information	platelet endothelial cell adhesion molecule; CD31 antigen
UniProt Protein Name	Platelet endothelial cell adhesion molecule
UniProt Gene Name	PECAM1
UniProt Synonym Gene Names	PECAM-1
UniProt Entry Name	PECA1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.