

Human PECAM1/CD31 Antibody Pair Set

Catalog No.	E-KAB-0531	Applications	ELISA
Synonyms	CD31;CD31/EndoCAM;Cluster of differentiation 31;EndoCAM;GPIIA';PECA1;PECAM-1;Platelet endothelial cell adhesion molecule		

Kit components & Storage

Title	Specifications	Storage
Human PECAM1/CD31 Capture Antibody	1 vial, 100 µg	Store at -20°C for one year. Avoid freeze/thaw cycles.
Human PECAM1/CD31 Detection Antibody (Biotin)	1 vial, 50 µL	Store at -20°C for one year. Avoid freeze/thaw cycles.

Note: Centrifuge before opening to ensure complete recovery of vial contents.

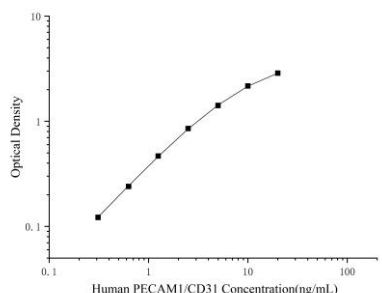
Product Information

Items		Characteristic (E-KAB-0531)	
		Human PECAM1/CD31 Capture Antibody	Human PECAM1/CD31 Detection Antibody (Biotin)
Immunogen Information	Immunogen	Recombinant Human PECAM1/CD31 protien	Recombinant Human PECAM1/CD31 protien
	Swissprot	P16284	
Product details	Reactivity	Human	Human
	Host	Mouse	Mouse
	Conjugation	Unconjugated	Biotin
	Concentration	0.5 mg/mL	/
	Buffer	PBS with 0.04% Proclin 300; 50% glycerol; pH 7.5	PBS with 0.04% Proclin 300; 1% protective protein; 50% glycerol; pH 7.5
	Purify	Protein A or G	Protein A or G
Specificity	Detects Human PECAM1/CD31 in ELISAs.		

For Research Use Only

Applications

Human PECAM1/CD31 Sandwich ELISA Assay:

	Recommended Concentration/Dilution	Reagent	Images
ELISA Capture	0.5-4 µg/mL	Human PECAM1/CD31 Capture Antibody	
ELISA Detection	1:1000-1:10000	Human PECAM1/CD31 Detection Antibody (Biotin)	

Note: This standard curve is only for demonstration purposes. A standard curve should be generated for each assay!

Background

Cell adhesion molecule which is required for leukocyte transendothelial migration (TEM) under most inflammatory conditions. Tyr-690 plays a critical role in TEM and is required for efficient trafficking of PECAM1 to and from the lateral border recycling compartment (LBRC) and is also essential for the LBRC membrane to be targeted around migrating leukocytes. Trans-homophilic interaction may play a role in endothelial cell-cell adhesion via cell junctions. Heterophilic interaction with CD177 plays a role in transendothelial migration of neutrophils. Homophilic ligation of PECAM1 prevents macrophage-mediated phagocytosis of neighboring viable leukocytes by transmitting a detachment signal. Promotes macrophage-mediated phagocytosis of apoptotic leukocytes by tethering them to the phagocytic cells, PECAM1-mediated detachment signal appears to be disabled in apoptotic leukocytes.