

Product datasheet for **EA200046**

Human CD31 (PECAM1) ELISA Kit 1 x 96

Product data:

Product Type:	ELISA Kits
Description:	Human CD31 (PECAM1) ELISA Kit 1 x 96
Size:	1 x 96 wells
Format:	8x12 divisible strips
Assay Type:	Sandwich
Assay Length:	3.5 hours incubations; 0.5 hour washing and analyzing samples
Signal:	Colorimetric
Curve Range:	78-5000pg/ml
Sample Type:	Human serum, plasma and other biological fluids.
Sample Volume:	100µl
Specificity:	This kit is used for quantitative detection of PECAM-1
Sensitivity:	37pg/ml
Reactivity:	Human
Cross Reactivity:	There is no detectable cross-reactivity with other relevant proteins.
Interference:	No significant interference observed with available related molecules.
Components:	<ul style="list-style-type: none">• PECAM-1 Monoclonal Antibody Coated 96-well Plate in foil pouch with desiccant 1 plate• Recombinant Human PECAM-1 Standard (250ng/ml) 0.1 mL• 100x Biotin conjugated PECAM-1 Detection Antibody 0.12 mL• 100x SA-HRP Conjugate 0.12 mL• Assay Buffer 40 mL• Sample Diluent 30 mL• Wash Buffer Concentrate 20X 60 mL• TMB Substrate 12 mL• Stop Solution 12 mL• Plate Sealer 3 pieces



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Background:

Platelet endothelial cell adhesion molecule (PECAM-1) also known as CD31, PCAM-1. It is a highly glycosylated transmembrane protein with a mass of approximately 130 kDa. The N-terminal domain consists of six extracellular Ig-like domains. PCAM-1 is normally found on endothelial cells, platelets, macrophages and Kupffer cells, granulocytes, lymphocytes (T cells, B cells, and NK cells), megakaryocytes, and osteoclasts. Signaling through PECAM-1 leads to the activation of neutrophils, monocytes and leukocytes. PECAM-1 is likely involved in leukocyte transmigration, angiogenesis, and integrin activation. PECAM-1 is also expressed by many solid tumor cell lines such as hemangioma, angiosarcoma, Kaposi's sarcoma, breast carcinoma, glioblastoma, colon carcinoma, skin carcinoma and other tumor cell lines. On the surface of these tumor cells PECAM-1 mediates the adhesion to endothelial cells. PECAM-1 modulates tumor growth by the formation of new endothelial cell tubes. Recently, it was found out that elderly patients with gastric cancer have high concentration of PECAM-1 in the serum. That suggests that the use of a serum PECAM-1 level can be a good prognostic marker. PECAM-1 contributes to at least two of the nervous system diseases, multiple sclerosis and cerebral ischaemia. High levels of soluble PECAM-1 can be used to diagnose both diseases. Increased PECAM-1 levels indicate damage in the blood brain barrier in patients with multiple sclerosis and high PECAM-1 levels can be used as a short-term prediction of a stroke in patients with cerebral ischaemia. In addition, patients with disseminated intravascular coagulation (DIC) have high levels of PECAM-1 in the serum indicating PECAM-1 as a good diagnostic marker.

Gene Symbol:

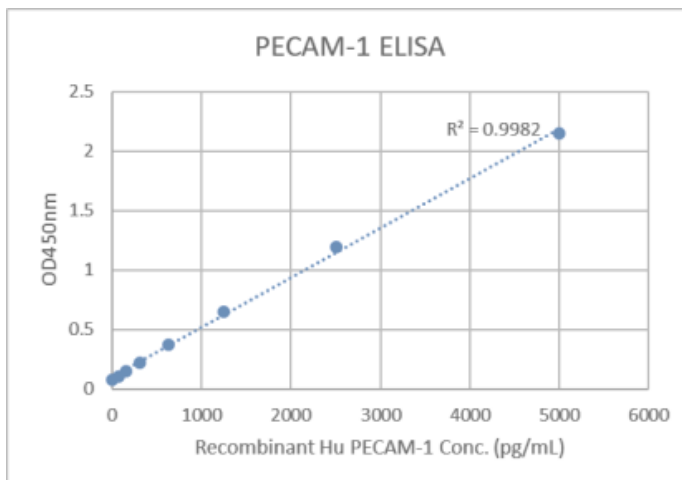
PECAM1

Gene ID:

5175

Standard Curve:

□
Human CD31 (PECAM1) ELISA Kit.

Product images:


Human CD31 (PECAM1) ELISA Kit.