.-online.com antibodies

Datasheet for ABIN1112672 CD31 ELISA Kit



Overview

Quantity:	96 tests
Target:	CD31 (PECAM1)
Reactivity:	Human
Method Type:	Sandwich ELISA
Detection Range:	156-10000 pg/mL
Minimum Detection Limit:	156 pg/mL
Application:	ELISA

Product Details

Purpose:	For quantitative detection of PECAM-1 in human serum, plasma, body fluids, tissue lysates or cell culture supernatants.
Sample Type:	Cell Culture Supernatant, Plasma, Serum, Tissue Lysate
Analytical Method:	Quantitative
Detection Method:	Colorimetric
Sensitivity:	< 10 pg/mL
Components:	1. One 96-well plate pre-coated with anti-Human PECAM-1 antibody 2. Lyophilized Human PECAM-1 standards: 2 tubes (10ng / tube) 3. Sample / Standard diluent buffer: 30ml 4. Biotin conjugated anti-Human PECAM-1 antibody (Concentrated): 130 μl.
Material not included:	1. 37 °C incubator 2. Microplate reader (wavelength: 450nm) 3. Precise pipette and disposable pipette tips 4. Automated plate washer 5. ELISA shaker 6. 1.5ml of Eppendorf tubes 7. Plate cover 8. Absorbent filter papers 9. Plastic or glass container with volume of above 1L

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 1/3 | Product datasheet for ABIN1112672 | 09/12/2023 | Copyright antibodies-online. All rights reserved.

Target:	CD31 (PECAM1)
Alternative Name:	CD31 / PECAM-1 (PECAM1 Products)
Background:	Platelet endothelial cell adhesion molecule (PECAM-1) also known as cluster of differentiation 31 (CD31), is a member of the immunoglobulin (Ig) superfamily that is expressed on the surface of circulating platelets, monocytes, neutrophils, and particular T-cell subsets. PECAM1 plays a role as an adhesion receptor in thrombosis, hemostasis, immunity, and inflammatory response, and it is also an important target glycoprotein in drug-induced immune thrombocytopenia.
Pathways:	Regulation of Actin Filament Polymerization
Application Details	
Comment:	This kit was based on sandwich enzyme-linked immune-sorbent assay technology. Anti- PECAM-1 polyclonal antibody was pre-coated onto 96-well plates. And the biotin conjugated anti-PECAM-1 polyclonal antibody was used as detection antibodies. The standards test samples and biotin conjugated detection antibody were added - the wells subsequently and wash with wash buffer. Avidin-Biotin-Peroxidase Complex was added and unbound conjugates were washed away with wash buffer. TMB substrates were used - visualize HRP enzymatic reaction. TMB was catalyzed by HRP - produce a blue color product that changed into yellow after adding acidic stop solution. The density of yellow is proportional - the PECAM-1 amount of sample captured in plate. Read the O.D. absorbance at 450 nm in a microplate reader and then the concentration of PECAM-1 can be calculated.
Plate:	Pre-coated
Reagent Preparation:	1. Before the experiment, centrifuge each kit component for several minutes to bring down all reagents to the bottom of tubes. 2. It is recommend to measure each standard and sample in duplicate. 3. Do NOT let the plate completely dry at any time! Since the dry condition can inactivate the biological material on the plate. 4. Do not reuse pipette tips and tubes to avoid cross contamination. 5. Do not use the expired components and the components from different batches. 6. To avoid the marginal effect of plate incubation for temperature differences (the marginal wells always get stronger reaction), it is recommend to equilibrate the ABC working solution and TMB substrate for at least 30 min at room temperature (37°C) before adding to wells. The TMB substrate (Kit Component 8) is colorless and transparent before use, if not, please contact us for replacement.
Sample Preparation:	Preparation of sample and reagents 1. Sample Isolate the test samples soon after collecting,

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 2/3 | Product datasheet for ABIN1112672 | 09/12/2023 | Copyright antibodies-online. All rights reserved.

Application Details

	then, analyze immediately (within 2 hours). Or aliquot and store at -20 °C for long term. Avoid
	multiple freeze-thaw cycles.
	Tissue lysate or body fluids and cell culture supernatants: Centrifuge to remove precipitate,
	analyze immediately or aliquot and store at -20 °C .
	Serum: Coagulate the serum at room temperature (about 4 hours). Centrifuge at approximately
	1000 × g for 15 min. Analyze the serum immediately or aliquot and store at -20 $^\circ C$.
	Plasma: Collect plasma with heparin or EDTA as the anticoagulant. Centrifuge for 15 min at
	1000 x g within 30 min of collection. For eliminating the platelet effect, suggesting that further
	centrifugation for 10 min at 2-8°C at 10000 x g. Analyze immediately or aliquot and store frozen
	at -20 °C. Citrate can not be used as anticoagulant here. Note: 1. Coagulate blood samples
	completely, then, centrifuge, and avoid hemolysis and particle. 2. NaN3 can not be used as test
	sample preservative, since it is the inhibitor for HRP.
Restrictions:	For Research Use only
Handling	
Preservative:	Sodium azide, Thimerosal (Merthiolate)