

## Datasheet for ABIN1112673 CD31 ELISA Kit



Overview

Quantity:	96 tests
Target:	CD31 (PECAM1)
Reactivity:	Mouse
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 mouse 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-Mouse PECAM-1 antibody 2. Lyophilized Mouse PECAM-1 standards: 2 tubes (10ng / tube) 3. Sample / Standard diluent buffer: 30ml 4. Biotin conjugated anti-Mouse 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

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Target: Alternative Name: Background:	CD31 (PECAM1) CD31 / PECAM-1 (PECAM1 Products) 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. Regulation of Actin Filament Polymerization
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.
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Dethurove	thrombocytopenia.
Dethurove	
Dethyloyo	Regulation of Actin Filament Polymerization
Pathways:	
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 o
	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 differen
	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,

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## 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, 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 $^\circ \text{C}$ .
	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)