

Datasheet for ABIN367806 CD31 ELISA Kit

Image



Overview

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Quantity:	96 tests
Target:	CD31 (PECAM1)
Reactivity:	Mouse
Method Type:	Sandwich ELISA
Detection Range:	3.12-200 pg/mL
Minimum Detection Limit:	3.12 pg/mL
Application:	ELISA

Product Details

Purpose:This assay employs the quantitative sandwich enzyme immunoassay technique.Analytical Method:QuantitativeDetection Method:ColorimetricSpecificity:This assay has high sensitivity and excellent specificity for detection of Mouse PECAM1.Cross-Reactivity (Details):Limited by current skills and knowledge, it is impossible for us to complete the cross-reactividetection between the target antigen and all analogues for other species. Therefore, cross reaction may still exist.Sensitivity:0.78 pg/mLComponents:• Assay plate (12 × 8 coated Microwells) • Standard (freeze dried) • Biotin-antibody (100 × concentrate)		
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Standard (freeze dried)	Sensitivity:	0.78 pg/mL
	Components:	Standard (freeze dried)

• HRP-avidin (100 × concentrate)

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- Biotin-antibody Diluent
- HRP-avidin Diluent
- Sample Diluent
- Wash Buffer (25 × concentrate)
- TMB Substrate
- Stop Solution
- Adhesive Strip (for 96 wells)
- Instruction manual

Target Details

Target:	CD31 (PECAM1)
Alternative Name:	soluble platelet endothelial cell adhesion molecule 1,sPECAM-1 (PECAM1 Products)
Background:	Synonyms: CD31, FLJ58394, PECAM-1, CD31 antigen CD31/EndoCAM PECAM-1, CD31/EndoCAM adhesion molecule
UniProt:	Q08481
Pathways:	Regulation of Actin Filament Polymerization

Application Details

assay. The user should calculate the possible amount of the samples used in the whole test.
Please reserve sufficient samples in advance.
 Samples to be used within 5 days may be stored at 2-8°C, otherwise samples must be stored
at -20°C (\leq 1 month) or -80°C (\leq 2 months) to avoid loss of bioactivity and contamination.
 Grossly hemolyzed samples are not suitable for use in this assay.
If the samples are not indicated in the manual, a preliminary experiment to determine the
validity of the kit is necessary.
Please predict the concentration before assaying. If values for these are not within the range
of the standard curve, users must determine the optimal sample dilutions for their particular
experiments.
• Tissue or cell extraction samples prepared by chemical lysis buffer may cause unexpected
ELISA results due to the impacts of certain chemicals.
Owing to the possibility of mismatching between antigens from another resource and
antibodies used in this supplier's kits (e.g., antibody targets conformational epitope rather
than linear epitope), some native or recombinant proteins from other manufacturers may not
be recognized by this supplier's products.
Influenced by factors including cell viability, cell number and cell sampling time, samples
from cell culture supernatant may not be recognized by the kit.
Fresh samples without long time storage are recommended for the test. Otherwise, protein

	degradation and denaturalization may occur in those samples and finally lead to wrong results.
Comment:	Detection wavelength: 450 nm
	Information on standard material:
	Depending on the antigen to be detected, standards can be either native or recombinant
	protein. The recombinant proteins are being expressed in CHO cells in most cases. Please
	inquire for more information. The formulation of auxiliary material in the standard is considered
	proprietary information, however it does not contain any poisonous substance. Proclin 300
	(1:3000) is used as preservative.
	Information on reagents:
	In most cases the stop solution provided is 1 N H2SO4. The formulation of wash solution is
	proprietary information. None of the components contain (sodium) azide, thimerosal, 2-
	mercaptoethanol (2-ME) or any other poisonous materials. For the sandwich method kits, the
	sample diluent, antibody diluent, enzyme diluent and standard all contain BSA.
	Information on antibodies:
	The antibodies provided in different kits vary in regards to clonality and host. Some antibodies
	are affinity purified, some are Protein A
Sample Volume:	100 µL
Assay Time:	1 - 4.5 h
Plate:	Pre-coated
Protocol:	Antibody specific for PECAM1 has been pre-coated onto a microplate. Standards and samples
	are pipetted into the wells and any PECAM1 present is bound by the immobilized antibody.
	After removing any unbound substances, a biotin-conjugated antibody specific for PECAM1 is
	added to the wells. After washing, avidin conjugated Horseradish Peroxidase (HRP) is added to
	the wells. Following a wash to remove any unbound avidin-enzyme reagent, a substrate
	solution is added to the wells and color develops in proportion to the amount of PECAM1 bound
	in the initial step. The color development is stopped and the intensity of the color is measured.
Reagent Preparation:	 Biotin-antibody (1×) - Centrifuge the vial before opening. Biotin-antibody requires a 100-fold dilution. The suggested dilution is 10µL of Biotin-antibody + 990µL of Biotin-antibody Diluent. HRP-avidin (1×) - Centrifuge the vial before opening.

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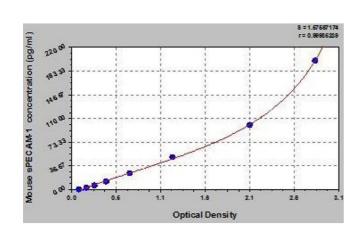
Handling Advice:	• The kit should not be used beyond the expiration date on the kit label.
Precaution of Use:	The Stop Solution provided with this kit is an acid solution. Wear eye, hand, face and clothing protection when using this material.
Handling	
Restrictions:	For Research Use only
	 Inter-assay: CV% less than 10%
	 Intra-assay: CV% less than 8%
	tested in twenty assays to assess precision.
	tested twenty times on one plate to assess precision. Inter-assay precision (precision between assays): Three samples of known concentration were
Assay Precision:	Intra-assay precision (precision within an assay): Three samples of known concentration were
	 suck more than 10µL when pipetting. It is recommended to use distilled water to prepare reagents and samples. Using contaminated water or container for reagent preparation will influence detection result.
	gently until the crystals have completely dissolved. To minimize imprecision caused by pipetting, use small volumes and ensure that pipettors are calibrated. It is recommended to
	• Please carefully reconstitute Standards according to the instruction. Avoid foaming and mix gently until the crystals have completely dissolved. To minimize imprecision caused by
	Making serial dilution in the wells directly is not permitted.
	 Prepare fresh standard for each assay. Use within 4 hours and discard after use.
	directly in the Diluent vials provided in the kit.Bring all reagents to room temperature (18-25°C) before use for 30 min.
	Kindly use graduated containers to prepare the reagent. Please don't prepare the reagent
	Note:
	making dilutions. Pipette 250µL of Sample Diluent into each tube. Use the stock solution to produce a 2-fold dilution series. Mix each tube thoroughly before the next transfer. The undiluted Standard serves as the high standard. Sample Diluent serves as the zero standard (0ng/mL).
	Reconstitute the Standard with 1ml of Sample Diluent. Do not substitute other diluents. This reconstitution produces a stock solution. Mix the standard to ensure complete reconstitution and allow the standard to sit for a minimum of 15 minutes with gentle agitation prior to
	 Wash Buffer (1×) - If crystals have formed in the concentrate, warm up to room temperature and mix gently until the crystals have completely dissolved. Dilute 20mL of Wash Buffer Concentrate (25×) into deionized or distilled water to prepare 500mL of Wash Buffer (1×). Standard - Centrifuge the standard vial at 6000-10000rpm for 30s.
	of HRP-avidin Diluent.

HRP-avidin requires a 100-fold dilution. The suggested dilution is 10µL of HRP-avidin + 990µL

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	 Do not mix or substitute reagents with those from other lots or sources.
	• If samples generate values higher than the highest standard, dilute the samples with Sample
	Diluent and repeat the assay.
	Any variation in Sample Diluent, operator, pipetting technique, washing technique, incubation
	time/temperature and kit age can cause variation in binding.
	This assay is designed to eliminate interference by soluble receptors, binding proteins and
	other factors present in biological samples. Until all factors have been tested in the
	Immunoassay, the possibility of interference cannot be excluded.
Storage:	4 °C/-20 °C
Storage Comment:	For unopened kit: All the reagents should be kept according to the labels on vials.
Expiry Date:	6 months

Images



ELISA

Image 1. Typical standard curve