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Datasheet for ABIN812203 CD81 ELISA Kit

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Overview

Quantity:	96 tests
Target:	CD81
Reactivity:	Human
Method Type:	Sandwich ELISA
Detection Range:	0.156-10 ng/mL
Minimum Detection Limit:	0.156 ng/mL
Application:	ELISA

Product Details

Purpose:	This assay employs the quantitative sandwich enzyme immunoassay technique.
Sample Type:	Serum, Plasma, Tissue Homogenate, Cell Lysate
Analytical Method:	Quantitative
Detection Method:	Colorimetric
Specificity:	This assay has high sensitivity and excellent specificity for detection of Human CD81.
Cross-Reactivity (Details):	Limited by current skills and knowledge, it is impossible for us to complete the cross-reactivity detection between the target antigen and all analogues for other species. Therefore, cross reaction may still exist.
Sensitivity:	0.039 ng/mL
Components:	Assay plate (12 × 8 coated Microwells)Standard (freeze dried)

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- Biotin-antibody (100 × concentrate)
- HRP-avidin (100 × concentrate)
- 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:	CD81
Alternative Name:	CD81 Molecule (CD81) (CD81 Products)
Background:	Synonyms: S5.7, TAPA1, TSPAN28, 26 kDa cell surface protein TAPA-1 CD81 antigen CD81 antigen CD81 antigen (target of antiproliferative antibody 1) target of antiproliferative antibody 1
HGNC:	17813
UniProt:	P60033
Pathways:	Inositol Metabolic Process, Hepatitis C

Application Details

Application Notes:	The supplier is only responsible for the kit itself, but not for the samples consumed during the
	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

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- 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 CD81 has been pre-coated onto a microplate. Standards and samples are
	pipetted into the wells and any CD81 present is bound by the immobilized antibody. After
	removing any unbound substances, a biotin-conjugated antibody specific for CD81 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 CD81 bound in the initial step.
	The color development is stopped and the intensity of the color is measured.

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	 Note: Kindly use graduated containers to prepare the reagent. Please don't prepare the reagent
	 Bring all reagents to room temperature (18-25°C) before use for 30 min. Prepare fresh standard for each assay. Use within 4 hours and discard after use. Making serial dilution in the wells directly is not permitted.
	 Please carefully reconstitute Standards according to the instruction. Avoid foaming and mix 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 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.
Assay Precision:	Intra-assay precision (precision within an assay): Three samples of known concentration were
	tested twenty times on one plate to assess precision.
	Inter-assay precision (precision between assays): Three samples of known concentration were
	tested in twenty assays to assess precision.
	Intra-assay: CV% less than 8%
	Inter-assay: CV% less than 10%
Restrictions:	For Research Use only
Handling	
Precaution of Use:	The Stop Solution provided with this kit is an acid solution. Wear eye, hand, face and clothing

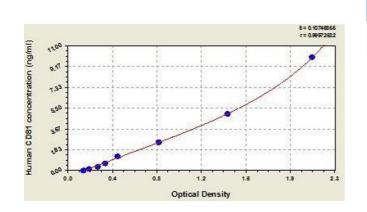
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	protection when using this material.
Handling Advice:	 The kit should not be used beyond the expiration date on the kit label. Do not mix or substitute reagents with those from other lots or sources. If samples generate values higher than the highest 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
Publications	
Product cited in:	Mullins, Mustapic, Goetzl, Kapogiannis: "Exosomal biomarkers of brain insulin resistance associated with regional atrophy in Alzheimer's disease." in: Human brain mapping , Vol. 38, Issue 4, pp. 1933-1940, (2018) (PubMed).
	Goetzl, Abner, Jicha, Kapogiannis, Schwartz: "Declining levels of functionally specialized synaptic proteins in plasma neuronal exosomes with progression of Alzheimer's disease." in:
	FASEB journal : official publication of the Federation of American Societies for Experimenta Biology , Vol. 32, Issue 2, pp. 888-893, (2018) (PubMed).
	Goetzl, Schwartz, Abner, Jicha, Kapogiannis: "High complement levels in astrocyte-derived exosomes of Alzheimer disease." in: Annals of neurology , Vol. 83, Issue 3, pp. 544-552, (2018) PubMed).
	Goetzl, Goetzl, Karliner, Tang, Pulliam: "Human plasma platelet-derived exosomes: effects of aspirin." in: FASEB journal : official publication of the Federation of American Societies for
	Experimental Biology, Vol. 30, Issue 5, pp. 2058-63, (2017) (PubMed).
	. [8] Kapogiannis, Boxer, Schwartz, Abner, Biragyn, Masharani, Frassetto, Petersen, Miller, Goetzl

Federation of American Societies for Experimental Biology, Vol. 29, Issue 2, pp. 589-96, (2015) (PubMed).

There are more publications referencing this product on: Product page

Images



ELISA

Image 1. Typical standard curve

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