

Datasheet for ABIN843770

LCP1 ELISA Kit[Go to Product page](#)**1** Image**1** Publication

Overview

Quantity:	96 tests
Target:	LCP1
Reactivity:	Human
Method Type:	Sandwich ELISA
Detection Range:	15.6 pg/mL - 1000 pg/mL
Minimum Detection Limit:	15.6 pg/mL
Application:	ELISA

Product Details

Purpose:	For the quantitative determination of human plastin-2 (LCP1) concentrations in serum, plasma, cell culture supernates, tissue homogenates.
Sample Type:	Serum, Plasma, Cell Culture Supernatant, Tissue Homogenate
Analytical Method:	Quantitative
Detection Method:	Colorimetric
Specificity:	This assay has high sensitivity and excellent specificity for detection of human LCP1.
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:	3.9 pg/mL
Components:	<ul style="list-style-type: none">• Assay plate (12 × 8 coated Microwells)

Product Details

- Standard (freeze dried)
- 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:	LCP1
Alternative Name:	Lymphocyte Cytosolic Protein 1 (L-Plastin) (LCP1) (LCP1 Products)
Background:	Synonyms: CP64, DKFZp781A23186, FLJ25423, FLJ26114, FLJ39956, L-PLASTIN, LC64P, LPL, PLS2, L-plastin L-plastin (Lymphocyte cytosolic protein 1) (LCP-1) (LC64P) Lymphocyte cytosolic protein-1 (plasmin) OTTHUMP
HGNC:	6528
UniProt:	P13796

Application Details

Application Notes:	<ul style="list-style-type: none">• 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 (≤ 1 month) or -80°C (≤ 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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- 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:	<p>Detection wavelength: 450 nm</p> <p>Information on standard material:</p> <p>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.</p> <p>Information on reagents:</p> <p>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.</p> <p>Information on antibodies:</p> <p>The antibodies provided in different kits vary in regards to clonality and host. Some antibodies are affinity purified, some are Protein A</p>
Sample Volume:	100 µL
Assay Time:	1 - 4.5 h
Plate:	Pre-coated
Protocol:	<p>This assay employs the quantitative sandwich enzyme immunoassay technique. Antibody specific for LCP1 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any LCP1 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for LCP1 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 LCP1 bound in the initial step. The color development is stopped and the intensity of the color is measured.</p>

Application Details

Reagent Preparation:	<ol style="list-style-type: none">1. Biotin-antibody (1x) - Centrifuge the vial before opening. Biotin-antibody requires a 100-fold dilution. A suggested 100-fold dilution is 10 µL of Biotin-antibody + 990 µL of Biotin-antibody Diluent.2. HRP-avidin (1x) - Centrifuge the vial before opening. HRP-avidin requires a 100-fold dilution. A suggested 100-fold dilution is 10 µL of HRP-avidin + 990 µL of HRP-avidin Diluent.3. Wash Buffer (1x) - If crystals have formed in the concentrate, warm up to room temperature and mix gently until the crystals have completely dissolved. Dilute 20 mL of Wash Buffer Concentrate (25 x) into deionized or distilled water to prepare 500 mL of Wash Buffer (1 x).4. Standard Centrifuge the standard vial at 6000-10000rpm for 30s. Reconstitute the Standard with 1.0 ml of Sample Diluent. Do not substitute other diluents. This reconstitution produces a stock solution of 1000 pg/ml. Mix the standard to ensure complete reconstitution and allow the standard to sit for a minimum of 15 minutes with gentle agitation prior to making dilutions. Pipette 250 µl of Sample Diluent into each tube (S0-S6). 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 (1000 pg/ml). Sample Diluent serves as the zero standard (0 pg/ml).
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Note:

- Kindly use graduated containers to prepare the reagent. Please don't prepare the reagent directly in the Diluent vials provided in the kit.
- 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, and 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 10 µL for once pipetting.
- Distilled water is recommended to be used to make the preparation for reagents. Contaminated water or container for reagent preparation will influence the detection result.

Assay Precision:	<p>Intra-assay precision (precision within an assay): Three samples of known concentration were tested twenty times on one plate to assess precision.</p> <p>Inter-assay precision (precision between assays): Three samples of known concentration were tested in twenty assays to assess precision.</p> <ul style="list-style-type: none">• Intra-assay: CV% less than 8%• Inter-assay: CV% less than 10%
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Restrictions:	For Research Use only
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Handling

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.
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Handling

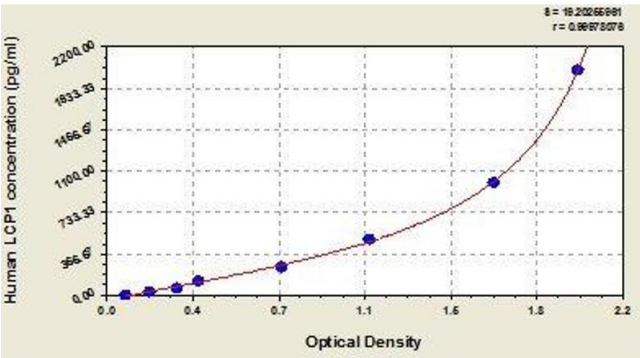
Handling Advice:	<ul style="list-style-type: none">• The kit should not be used beyond the expiration date on the kit label.• Do not mix or substitute reagents with those from other lots or sources.• If samples generate values higher than the highest standard, dilute the samples with Sample Diluent and 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.
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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:	Oztürk, Emingil, Osterwalder, Bostanci: "The actin-bundling protein L-plastin: a novel local inflammatory marker associated with periodontitis." in: Journal of periodontal research , (2014) (PubMed).
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Images



ELISA

Image 1. Typical standard curve