abcam

Product datasheet

Human MCP3 ELISA Kit (CCL7) ab193769

SimpleStep ELISA

3 References 5 Images

Overview

Product name Human MCP3 ELISA Kit (CCL7)

Detection method Colorimetric

Precision

Intra-assay

Sample	n	Mean	SD	CV%
Overall	5			2%

Inter-assay

Sample	n	Mean	SD	CV%
Overall	3			6.8%

Sample type Cell culture supernatant, Serum, Hep Plasma, EDTA Plasma, Cit plasma

Assay type Sandwich (quantitative)

Sensitivity 10.3 pg/ml

Range 46.875 pg/ml - 3000 pg/ml

Recovery

Sample specific recovery

Sample type	Average %	Range
Serum	99.7	98.4% - 101.2%
Cell culture media	107.3	103.8% - 112.9%
Hep Plasma	98.5	97% - 99.5%
EDTA Plasma	87.8	84.7% - 89.6%
Cit plasma	99	95.6% - 101%

Assay time 1h 30m

Assay duration One step assay

Species reactivity

Reacts with: Human

Product overview

Human MCP3 ELISA Kit (CCL7) (ab193769) is a single-wash 90 min sandwich ELISA designed for the quantitative measurement of MCP3 (CCL7) protein in cell culture supernatant, cit plasma, edta plasma, hep plasma, and serum. It uses our proprietary SimpleStep ELISA® technology. Quantitate Human MCP3 (CCL7) with 10.3 pg/ml sensitivity.

SimpleStep ELISA® technology employs capture antibodies conjugated to an affinity tag that is recognized by the monoclonal antibody used to coat our SimpleStep ELISA® plates. This approach to sandwich ELISA allows the formation of the antibody-analyte sandwich complex in a single step, significantly reducing assay time. See the SimpleStep ELISA® protocol summary in the image section for further details. Our SimpleStep ELISA® technology provides several benefits:

- Single-wash protocol reduces assay time to 90 minutes or less
- High sensitivity, specificity and reproducibility from superior antibodies
- Fully validated in biological samples
- 96-wells plate breakable into 12 x 8 wells strips

A 384-well SimpleStep ELISA® microplate (**ab203359**) is available to use as an alternative to the 96-well microplate provided with SimpleStep ELISA® kits.

Notes

MCP3 (CCL7) is a monomeric secreted chemotactic factor of intercrine (chemokine cc) family. MCP3 attracts monocytes and eosinophils, but not neutrophils. MCP3 augments monocyte anti-tumor activity. It also induces the release of gelatinase B. MCP3 protein can bind heparin. Binds to CCR1, CCR2 and CCR3.

Platform

Microplate (12 x 8 well strips)

Properties

Storage instructions

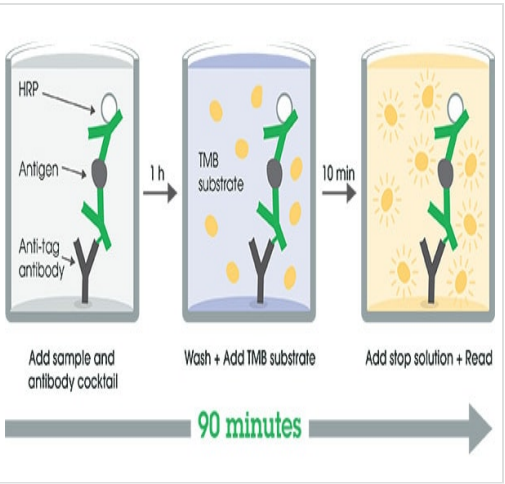
Store at +4°C. Please refer to protocols.

Components	1 x 96 tests
10X Human MCP3 Capture Antibody	1 x 600µl
10X Human MCP3 Detector Antibody	1 x 600µl
10X Wash Buffer PT (ab206977)	1 x 20ml
Antibody Diluent CPI - HAMA Blocker (ab193969)	1 x 6ml
Human MCP3 Lyophilized Recombinant Protein	2 vials
Plate Seals	1 unit
Sample Diluent 50BP	1 x 20ml
Sample Diluent NS (ab193972)	1 x 50ml
SimpleStep Pre-Coated 96-Well Microplate (ab206978)	1 unit

Components	1 x 96 tests
Stop Solution	1 x 12ml
TMB Development Solution	1 x 12ml

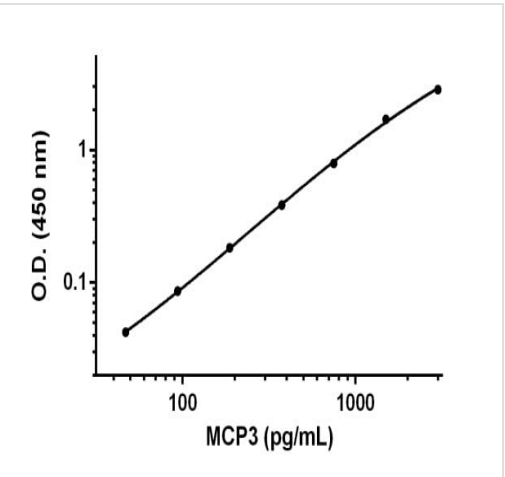
Function	Chemotactic factor that attracts monocytes and eosinophils, but not neutrophils. Augments monocyte anti-tumor activity. Also induces the release of gelatinase B. This protein can bind heparin. Binds to CCR1, CCR2 and CCR3.
Sequence similarities	Belongs to the intercrine beta (chemokine CC) family.
Post-translational modifications	O-glycosylated.
Cellular localization	Secreted.

Images



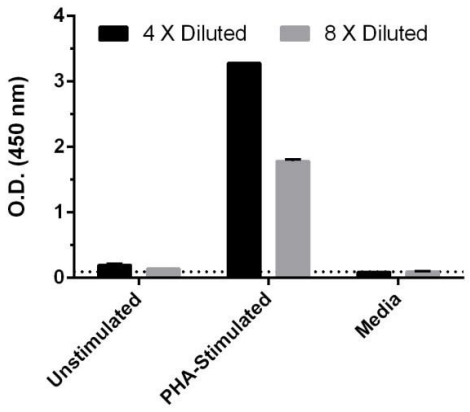
Other - Human MCP3 ELISA Kit (CCL7) (ab193769)

SimpleStep ELISA technology allows the formation of the antibody-antigen complex in one single step, reducing assay time to 90 minutes. Add samples or standards and antibody mix to wells all at once, incubate, wash, and add your final substrate. See protocol for a detailed step-by-step guide.



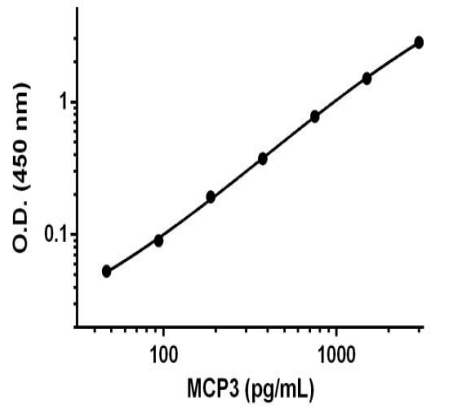
Example of MCP3 standard curve prepared in Sample Diluent NS.

Background-subtracted data values (mean +/- SD) are graphed.



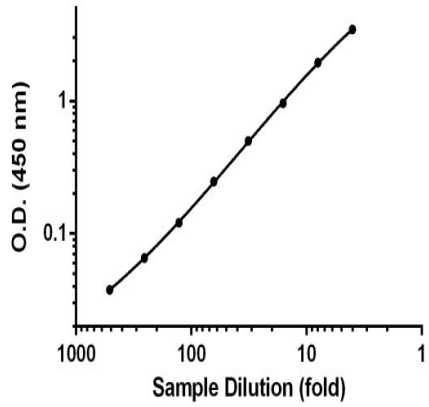
Comparison of MCP3 concentrations in unstimulated and PHA-stimulated Human PBMC.

PBMC were grown in the absence or presence of phytohemagglutinin (PHA) for 48 hours. MCP3 concentrations were measured in 4 X and 8 X diluted cell culture supernatants of the unstimulated PBMC and the stimulated PBMC, and 10F RPMI1640 media. Raw data values (mean +/-SD, n=2) are graphed. The dotted line represents Blank control.



Example of MCP3 standard curve prepared in Sample Diluent 50 BP.

Background-subtracted data values (mean +/- SD) are graphed.



Titration of 48 hours PHA-stimulated PBMC cell culture supernatant samples within the working range of the assay.

Background-subtracted data values (mean +/- SD, n = 2) are graphed.

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