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Datasheet for ABIN625061 CCL23 ELISA Kit

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Overview

Quantity:	96 tests
Target:	CCL23
Reactivity:	Human
Method Type:	Sandwich ELISA
Detection Range:	7-6000 pg/mL
Minimum Detection Limit:	7 pg/mL
Application:	ELISA

Product Details

Purpose:	Human MPIF-1 (CCL23) ELISA Kit for cell culture supernatants, plasma, and serum samples.	
Sample Type:	Plasma, Cell Culture Supernatant, Serum	
Analytical Method:	Quantitative	
Detection Method:	Colorimetric	
Specificity:	This ELISA kit shows no cross-reactivity with any of the cytokines tested: Human Angiogenin, BDNF, BLC, ENA-78, FGF-4, IL-1 alpha, IL-1 beta, IL-2, IL-3, IL-4, IL-5, IL-7, IL-8, IL-9, IL-10, IL-11, IL-12 p70, IL-12 p40, IL-13, IL-15, I-309, IP-10, G-CSF, GM-CSF, IFN-gamma, Leptin, MCP-1, MCP- 2, MCP-3, MDC, MIP-1 alpha, MIP-1 beta, MIP-1 delta, PARC, PDGF, RANTES, SCF, TARC, TGF- beta, TIMP-1, TIMP-2, TNF-alpha, TNF-beta, TPO, VEGF.	
Sensitivity:	7 pg/mL	
Characteristics:	Strip plates and additional reagents allow for use in multiple experiments	

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	 Quantitative protein detection Establishes normal range The best products for confirmation of antibody array data
Components:	 Pre-Coated 96-well Strip Microplate Wash Buffer Stop Solution Assay Diluent(s) Lyophilized Standard Biotinylated Detection Antibody Streptavidin-Conjugated HRP TMB One-Step Substrate
Material not included:	 Distilled or deionized water Precision pipettes to deliver 2 µL to 1 µL volumes Adjustable 1-25 µL pipettes for reagent preparation 100 µL and 1 liter graduated cylinders Tubes to prepare standard and sample dilutions Absorbent paper Microplate reader capable of measuring absorbance at 450nm Log-log graph paper or computer and software for ELISA data analysis

Target Details

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Target:	CCL23
Alternative Name:	MPIF1 (CCL23 Products)
Background:	MPIF-1 (Myeloid progenitor inhibitory factor-1) is also called Chemokine-beta-8, MIP-3-beta, or
	ELC. It is a highly basic protein (pl > 9) that is processed from a longer proprotein at the N-
	terminus. The protein exist as monomers under a variety of solution conditions. The factor is
	chemotactic for resting T-cells and monocytes. It is slightly chemotactic for neutrophils, and
	not chemotactic for activated T-lymphocytes. MPIF-1 is also a potent suppressor of bone
	marrow low proliferative potential colony-forming cells (LPP-CFC). The Human MPIF-1 ELISA
	(Enzyme-Linked Immunosorbent Assay) kit is an in vitro enzyme-linked immunosorbent assay
	for the quantitative measurement of human MPIF-1 in serum, plasma, cell culture supernatants
	and urine. This assay employs an antibody specific for human MPIF-1 coated on a 96-well
	plate. Standards and samples are pipetted into the wells and MPIF-1 present in a sample is
	bound to the wells by the immobilized antibody. The wells are washed and biotinylated anti-
	human MPIF-1 antibody is added. After washing away unbound biotinylated antibody, HRP-
	conjugated streptavidin is pipetted to the wells. The wells are again washed, a TMB substrate

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 2/5 | Product datasheet for ABIN625061 | 07/26/2024 | Copyright antibodies-online. All rights reserved. solution is added to the wells and color develops in proportion to the amount of MPIF-1 bound. The Stop Solution changes the color from blue to yellow, and the intensity of the color is measured at 450 nm. Reproducibility: Intra-Assay: CV<10% Inter-Assay: CV<12%.

Gene ID:	6368
UniProt:	P55773

Application Details

Application Notes:	Recommended Dilution for serum and plasma samples2 fold	
Sample Volume:	100 µL	
Plate:	Pre-coated	
Protocol:	1. Prepare all reagents, samples and standards as instructed in the manual.	
	2. Add 100 μL of standard or sample to each well.	
	3. Incubate 2.5 h at RT or O/N at 4 °C.	
	4. Add 100 μ L of prepared biotin antibody to each well.	
	5. Incubate 1 h at RT.	
	6. Add 100 μ L of prepared Streptavidin solution to each well.	
	7. Incubate 45 min at RT.	
	8. Add 100 μ L of TMB One-Step Substrate Reagent to each well.	
	9. Incubate 30 min at RT. 10. Add 50 μL of Stop Solution to each well.	
	11. Read at 450 nm immediately.	
Reagent Preparation:	1. Bring all reagents and samples to room temperature (18 - 25°C) before use. 2. Sample	
	dilution: If your samples need to be diluted, Assay Diluent A (Item D) is used for dilution of	
	serum/plasma samples, and Assay Diluent B (Item E) is used for dilution of culture	
	supernatants and urine. 3. Assay Diluent B should be diluted 5-fold with deionized or distilled	
	water. 4. Preparation of standard: Briefly spin the vial of Item C and then add 400 μI Assay	
	Diluent A (for serum/plasma samples) or 1x Assay Diluent B (for cell culture medium and urine,	
	Assay Diluent B should be diluted 5-fold with deionized or distilled water) into Item C vial to	
	prepare a 50 ng/ml standard. Dissolve the powder thoroughly by a gentle mix. Add 80 μ l MPIF-1	
	standard from the vial of Item C, into a tube with 586.7 μI Assay Diluent A or 1x Assay Diluent B	
	to prepare a 6,000 pg/ml stock standard solution. Pipette 400 μ l Assay Diluent A or 1x Assay	
	Diluent B into each tube. Use the stock standard solution to produce a dilution series (shown	
	below). Mix each tube thoroughly before the next transfer. Assay Diluent A or 1x Assay Diluent	
	B serves as the zero standard (0 pg/ml). 5. If the Wash Concentrate (20x) (Item B) contains	
	visible crystals, warm to room temperature and mix gently until dissolved. Dilute 20 ml of Wash	

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Assay Procedure: 1. Bring all reagents and samples to room temperature (18 - 25°C) before use. It is recommended that all standards and samples be run at least in duplicate. 2. Add 100 µl of each standard (see Reagent Preparation step 2) and sample into appropriate wells. Cover well and incubate for 2.5 hours at room temperature or over night at 4°C with gentle shaking. 3. Discard the solution and wash 4 times with 1x Wash Solution. Wash by filling each well with Wash Buffer (300 µl) using a multi-channel Pipette or autowasher. Complete removal of liquid at each step is essential to good performance. After the last wash, remove any remaining Wash Buffer by aspirating or decanting. Invert the plate and blot it against clean paper towels. 4. Add 100 µl of 1x prepared biotinylated antibody (Reagent Preparation step 6) to each well. Incubate for 1 hour at room temperature with gentle shaking. 5. Discard the solution. Repeat the wash as in step 3. 6. Add 100 µl of prepared Streptavidin solution (see Reagent Preparation step 7) to each well. Incubate for 45 minutes at room temperature with gentle shaking. 7. Discard the solution. Repeat the wash as in step 3. 8. Add 100 µl of TMB One-Step Substrate Reagent (Item H) to each well. Incubate for 30 minutes at room temperature in the dark with gentle shaking. 9. Add 50 µl of Stop Solution (Item I) to each well. Read at 450 nm immediately. Calculation of Results: Calculate the mean absorbance for each set of duplicate standards, controls and samples, and subtract the average zero standard optical density. Plot the standard curve on log-log graph paper or using Sigma plot software, with standard concentration on the x-axis and absorbance on the y-axis. Draw the best-fit straight line through the standard points. **Restrictions:** For Research Use only

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Storage:	-20 °C
Storage Comment:	The entire kit may be stored at -20°C for up to 1 year from the date of shipment. Avoid repeated freeze-thaw cycles. The kit may be stored at 4°C for up to 6 months. For extended storage, it is recommended to store at -80°C.
Expiry Date:	6 months
Publications	
Product cited in:	Ko, Kuo, Chang, Chen, Liu, Chen, Tsai, Lee, Chen, Wu, Chen: "CXCL10/IP-10 is a biomarker and mediator for Kawasaki disease." in: Circulation research , Vol. 116, Issue 5, pp. 876-83, (2015) (PubMed).
	Däbritz, Weinhage, Varga, Wirth, Walscheid, Brockhausen, Schwarzmaier, Brückner, Ross, Bettenworth, Roth, Ehrchen, Foell: "Reprogramming of monocytes by GM-CSF contributes to regulatory immune functions during intestinal inflammation." in: Journal of immunology (Baltimore, Md. : 1950) , Vol. 194, Issue 5, pp. 2424-38, (2015) (PubMed).
	Blengio, Raggi, Pierobon, Cappello, Eva, Giovarelli, Varesio, Bosco: "The hypoxic environment reprograms the cytokine/chemokine expression profile of human mature dendritic cells." in: Immunobiology , Vol. 218, Issue 1, pp. 76-89, (2012) (PubMed).



10

0.1

0.01

OD=450 nm 1

Images

Assay Diluent A Assay Diluent B 10 OD=450 nm 1 0.1 0.01 1000 10000 1000 10000 10 100 10 100 1 Human MPIF-1 concentration (pg/ml) Human MPIF-1 concentration (pg/ml)

ELISA

Image 1.