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Datasheet for ABIN624955 CCL28 ELISA Kit

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Overview

Quantity:	96 tests
Target:	CCL28
Reactivity:	Human
Method Type:	Sandwich ELISA
Detection Range:	25-20000 pg/mL
Minimum Detection Limit:	25 pg/mL
Application:	ELISA

Product Details

Purpose:	Human CCL28 (MEC) 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 the following 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-6, IL-7, IL-8, IL-9, IL-11, IL- 12 p70, IL-12 p40, IL-13, IL-15, I-309, IP-10, G-CSF, GM-CSF, IFN-gamma, Leptin (OB), 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:	< 25 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

Target:	CCL28
Alternative Name:	CCL28 (CCL28 Products)
Background:	The Human CCL28 ELISA (Enzyme-Linked Immunosorbent Assay) kit is an in vitro enzyme- linked immunosorbent assay for the quantitative measurement of human CCL28 in serum, plasma, cell culture supernatants and urine. This assay employs an antibody specific for human CCL28 coated on a 96-well plate. Standards and samples are pipetted into the wells and CCL28 present in a sample is bound to the wells by the immobilized antibody. The wells are washed and biotinylated anti-human CCL28 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 solution is added to the wells and color develops in proportion to the amount of CCL28 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:	56477

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Target Details

UniProt:

Q9NRJ3

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 µL of prepared Streptavidin solution to each well.
	7. Incubate 45 min at RT.
	8. Add 100 μL of TMB One-Step Substrate Reagent to each well. 9. Incubate 30 min at RT.
	10. Add 50 μ L 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) should be used
	for dilution of serum/plasma samples. 1x Assay Diluent B (Item E) should be used for dilution of
	culture supernantants and urine. Suggested dilution for normal serum/plasma: 2 fold*. *Please
	note that levels of the target protein may vary between different specimens. Optimal dilution
	factors for each sample must be determined by the investigator.
	3. Assay Diluent B should be diluted 5-fold with deionized or distilled water before use.
	4. Preparation of standard: Briefly spin the vial of Item C and then add 400 μL Assay Diluent A
	(for serum/plasma samples) or 1x Assay Diluent B (for cell culture supernates/urine) into Item
	C vial to prepare a 100 ng/mL standard. Dissolve the powder thoroughly by a gentle mix. Add
	100 µL CCL28 standard (100 ng/mL) from the vial of Item C, into a tube with 400 µL Assay
	Diluent A or 1x Assay Diluent B to prepare a 20 ng/mL standard solution. Pipette 400 µL Assay
	Diluent A or 1x Assay Diluent B into each tube. Use the 20 ng/mL standard solution to produce
	a dilution series . Mix each tube thoroughly before the next transfer. Assay Diluent A or 1x
	Assay Diluent B serves as the zero standard (0 pg/mL). 200 µL 100 µL standard + 400 µL
	200myl 200 μL 200 μL 200 μL 200 μL 20000 6666.7 2222.2 740.7 246.9 82.3 27.4 0 pg/mL
	pg/mL pg/mL pg/mL pg/mL pg/mL pg/mL
	5. If the Wash Concentrate (20x) (Item B) contains visible crystals, warm to room temperature

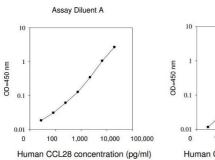
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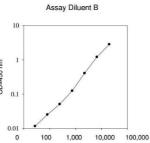
	and mix gently until dissolved. Dilute 20 ml of Wash Buffer Concentrate into deionized or
	distilled water to yield 400 ml of 1x Wash Buffer.
	6. Briefly spin the Detection Antibody vial (Item F) before use. Add 100 μ L of 1x Assay Diluent B
	into the vial to prepare a detection antibody concentrate. Pipette up and down to mix gently (the
	concentrate can be stored at 4 °C for 5 days). The detection antibody concentrate should be
	diluted 80-fold with 1x Assay Diluent B and used in step 4 of Part VI Assay Procedure.
	7. Briefly spin the HRP-Streptavidin concentrate vial (Item G) and pipette up and down to mix
	gently before use. HRP-Streptavidin concentrate should be diluted 300-fold with 1x Assay
	Diluent B. For example: Briefly spin the vial (Item G) and pipette up and down to mix gently . Add
	40 μ L of HRP-Streptavidin concentrate into a tube with 12 ml 1x Assay Diluent B to prepare a
	final 300 fold diluted HRP- Streptavidin solution (don't store the diluted solution for next day
	use). Mix well.
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 myl) 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
	6. Add 100 μ L 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
	8. Add 100 μ L 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.
	Typical Data: These standard curves are for demonstration only. A standard curve must be run

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	with each assay. Assay Diluent A Human CCL28 concentration (pg/mL) O D =4 50 n m 0.01 0.1
	1 10 0 100 1,000 10,000 100,000 Assay Diluent B Human CCL28 concentration (pg/mL) O D =4
	50 n m 0.01 0.1 1 10 0 100 1,000 10,000 100,000
	Sensitivity: The minimum detectable dose of CCL28 is typically less than 25 pg/mL.
	Recovery: Recovery was determined by spiking various human CCL28 into human serum,
	plasma and cell culture media. Mean recoveries are as follows: Sample Type Average $\%$
	Recovery Range (%) Serum 70.6 60-98 Plasma 68.6 59-82 Cell culture media 67.7 59-81
	Linearity: Sample Type Serum Plasma Cell Culture Media 1:2 Average % of Expected 108.5
	130.7 148.6 Range (%) 93-118 113-143 129-156 1:4 Average % of Expected 106.2 131.3 149.5
	Range (%) 92-118 113-142 129-156
	Reproducibility: Intra-Assay: CV<10 % Inter-Assay: CV<12 %
Assay Precision:	Intra-Assay: CV< 10 % Inter-Assay: CV< 12 %
Restrictions:	For Research Use only
Handling	
Handling Advice:	Avoid repeated freeze-thaw cycles.
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:	Pulikkotil, Nath: "Effects of curcumin on crevicular levels of IL-1 β and CCL28 in experimental
	gingivitis." in: Australian dental journal, Vol. 60, Issue 3, pp. 317-27, (2015) (PubMed).
	Ertugrul, Sahin, Dikilitas, Alpaslan, Bozoglan: "Comparison of CCL28, interleukin-8, interleukin-1?
	Ertugrul, Sahin, Dikilitas, Alpaslan, Bozoglan: "Comparison of CCL28, interleukin-8, interleukin-1? and tumor necrosis factor-alpha in subjects with gingivitis, chronic periodontitis and

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Human CCL28 concentration (pg/ml)

ELISA

Image 1.

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