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Datasheet for ABIN625283 CCL27 ELISA Kit

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Overview

Quantity:	96 tests
Target:	CCL27
Reactivity:	Human
Method Type:	Sandwich ELISA
Detection Range:	10-10000 pg/mL
Minimum Detection Limit:	10 pg/mL
Application:	ELISA

Product Details

Purpose:	Human CTACK (CCL27) 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, CNTF, 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, FGF-4, FGF-6, FGF- 7, G-CSF, GDNF, GM-
	CSF, IFN-gamma, IGFBP-2, IGFBP-3, IGFBP-4, Leptin (OB), MCP-1, MCP-2, MCP-3, MDC, MIF,
	MIG, MIP-1 alpha, MIP-1 beta, MIP-1 delta, PARC, PDGF, RANTES, SCF, SDF-1 alpha, TARC, TGF
	beta, TIMP-1, TIMP-2, TNF-alpha, TNF-beta, TPO, VEGF
Sensitivity:	< 10 pg/mL

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Product Details

Characteristics:	 Strip plates and additional reagents allow for use in multiple experiments 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:	CCL27
Alternative Name:	CTACK / CCL27 (CCL27 Products)
Background:	The Human CTACK 5 (cutaneous T cell attracting chemokine) ELISA (Enzyme-Linked Immunosorbent Assay) kit is an in vitro enzyme-linked immunosorbent assay for the quantitative measurement of human CTACK in serum, plasma, cell culture supernatants and urine. This assay employs an antibody specific for human CTACK coated on a 96-well plate. Standards and samples are pipetted into the wells and CTACK present in a sample is bound to the wells by the immobilized antibody. The wells are washed and biotinylated anti-human CTACK 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 CTACK 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:	10850

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Target Details

UniProt:

Q9Y4X3

Application Details

Application Notes:	Recommended Dilution for serum and plasma samples2 - 10 fold
Sample Volume:	100 μL
Plate:	Pre-coated
Protocol:	1. Prepare all reagents, samples and standards as instructed in the manual.
	2. Add 100 μ L 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 C (Item L) should be used
	for dilution of serum/plasma/culture supernatants/urine. Suggested dilution for normal
	serum/plasma: 2-10 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 (Item E) should be diluted 5-fold with deionized or distilled water before use.
	4. Preparation of standard: Briefly spin the vial of Item C. Add 400 μ L Assay Diluent C (Item L)
	into Item C vial to prepare a 100 ng/mL standard solution. Dissolve the powder thoroughly by a
	gentle mix. Add 50 μ L CTACK standard solution (100 ng/mL) from the vial of Item C, into a tub
	with 450 µL Assay Diluent C to prepare a 10,000 pg/mL standard solution. Pipette 400myl
	Assay Diluent C into each tube. Use the stock standard solution to produce a dilution series .
	Mix each tube thoroughly before the next transfer. Assay Diluent C serves as the zero standard
	(0 pg/mL). 200 μL 200 μL 200 μL 200 μL 200 μL 200myl 50 μL standard + 450 μL 10,000 3,333
	1,111 370.4 123.5 41.15 13.72 0 pg/mL 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
	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.

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	6. Briefly spin the Detection Antibody vial (Item F) before use. Add 100 μL of 1x Assay Diluent B (Item E) 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 500-fold with 1x Assay
	Diluent B (Item E). For example: Briefly spin the vial (Item G) and pipette up and down to mix
	gently . Add 20 μL of HRP-Streptavidin concentrate into a tube with 10 ml 1x Assay Diluent B to
	prepare a final 500 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 μ L 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 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.
	<u>Typical Data</u> : These standard curves are for demonstration only. A standard curve must be run
	with each assay. Assay Diluent C Human CTACK concentration (pg/mL) O D =4 50 n m 0.01 0.1

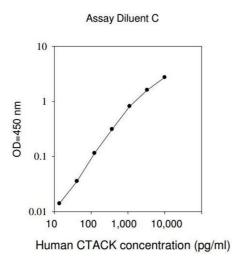
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	1 10 10 1,000 10,000
	Sensitivity: The minimum detectable dose of CTACK is typically less than 10 pg/mL.
	Recovery: Recovery was determined by spiking various levels of CTACK into normal human
	serum, plasma and cell culture media. Mean recoveries are as follows: Sample Type Average $\%$
	Recovery Range (%) Serum 76.79 68-85 Plasma 88.54 76-102 Cell culture media 111.1 93-121
	Linearity: Sample Type Serum Plasma Cell Culture Media 1:2 Average % of Expected 95.76
	95.90 97.68 Range (%) 84-103 87-104 85-106 1:4 Average % of Expected 84.48 75.57 75.89
	Range (%) 75-94 67-85 67-84
	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:	Gao, Camous, Lu, Lim, Larbi, Ng: "Novel inflammatory markers associated with cognitive
	performance: Singapore Longitudinal Ageing Studies." in: Neurobiology of aging, Vol. 39, pp.
	140-6, (2016) (PubMed).
	Wang, He, Tang, Zhang: "Chemokine expression in diverse nonimmediate drug hypersensitivity
	reactions: focus on thymus activation-regulated chemokine, cutaneous T-cell-attracting
	chemokine, and interleukin-10." in: Annals of allergy, asthma & immunology : official
	publication of the American College of Allergy, Asthma, & Immunology, Vol. 113, Issue 2, pp.
	204-8, (2014) (PubMed).

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ELISA

Image 1.

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