.-online.com antibodies

Datasheet for ABIN625207 CXCL5 ELISA Kit

1 Image

9 Publications



Overview

Quantity:	96 tests
Target:	CXCL5
Reactivity:	Rat
Method Type:	Sandwich ELISA
Detection Range:	20-6000 pg/mL
Minimum Detection Limit:	20 pg/mL
Application:	ELISA

Product Details

Purpose:	Rat LIX 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: rat CINC-2, CINC-3, CNTF, Fractalkine, IL-1 alpha, IL-1 beta, IL-4, IL-6, IL-10, GM-CSF, IFN-gamma, Leptin, MCP-1, MIP-3 alpha, beta-NGF, TIMP-1, TNF-alpha, VEGF.
Sensitivity:	< 20 pg/mL
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

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 1/5 | Product datasheet for ABIN625207 | 09/12/2023 | Copyright antibodies-online. All rights reserved.

Product Details

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:	CXCL5
Alternative Name:	LIX / CXCL5 (CXCL5 Products)
Background:	C-X-C motif chemokine 5 (Cytokine LIX) (Small-inducible cytokine B5)
Gene ID:	60665
UniProt:	P97885
Pathways:	Cellular Response to Molecule of Bacterial Origin, Regulation of Leukocyte Mediated Immunity

Application Details

Application Notes:	Recommended Dilution for serum and plasma samples3 fold
Sample Volume:	100 µL
Plate:	Pre-coated
Protocol:	 Prepare all reagents, samples and standards as instructed in the manual. Add 100 μL of standard or sample to each well. Incubate 2.5 h at RT or O/N at 4 °C. Add 100 μL of prepared biotin antibody to each well. Incubate 1 h at RT.

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 ABIN625207 | 09/12/2023 | Copyright antibodies-online. All rights reserved.

- 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 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) should be used for dilution of serum/plasma samples. 1x Assay Diluent B (Item E) should be used for dilution of culture supernatants. Suggested dilution for normal serum/plasma: 3 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.

4. Preparation of standard: Briefly spin the vial of Item C. Add 400 µL Assay Diluent A (for serum/plasma samples) or 1x Assay Diluent B (for cell culture medium) into Item C vial to prepare a 0.1 myg/mL standard. Dissolve the powder thoroughly by a gentle mix. Add 40 µL LIX standard from the vial of Item C, into a tube with 626.7 µL Assay Diluent A or 1x Assay Diluent B to prepare a 6000 pg/mL stock standard solution. Pipette 400 µL Assay Diluent A or 1x Assay Diluent B into each tube. Use the stock 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 200 µL 200 µL 200 µL 200 µL 200 µL standard +626.7 µL 6000 2000 666.7 222.2 74.07 24.69 0 pg/mL pg/mL pg/mL pg/mL pg/mL pg/mL pg/mL g/mL server 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) before use. HRP-Streptavidin concentrate should be diluted 400-fold with 1x Assay Diluent B. For example: Briefly spin the vial (Item G) and pipette up and down to mix gently . Add 30 μ L of HRP-Streptavidin concentrate into a tube with 12 ml 1x Assay Diluent B to prepare a 400-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.

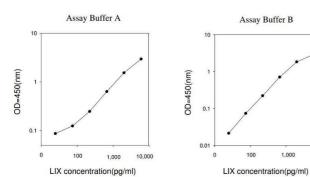
Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 3/5 | Product datasheet for ABIN625207 | 09/12/2023 | Copyright antibodies-online. All rights reserved.

Restrictions:	For Research Use only
Assay Precision:	Intra-Assay: CV< 10 % Inter-Assay: CV< 12 %
	Reproducibility: Intra-Assay: CV<10 % Inter-Assay: CV<12 %
	104 84-105
	Range (%) 83-103 82-102 87-103 1:4 Average % of Expected 90 94 93 Range (%) 84-103 83-
	Linearity: Sample Type Serum Plasma Cell Culture Media 1:2 Average % of Expected 87 89 90
	Range (%) Serum 88.63 83-102 Plasma 89.45 84-103 Cell culture media 93.53 85-103
	and cell culture media. Mean recoveries are as follows: Sample Type Average % Recovery
	<u>Recovery:</u> Recovery was determined by spiking various levels of rat LIX into rat serum, plasma
	Sensitivity: The minimum detectable dose of LIX is typically less than 20 pg/mL.
	10,0000 Assay Burler B EIX concentration(pg/m2) 0 B =4 30 (mm) 0.01 0.1 1 10 100 1,000
	10,0000 Assay Buffer B LIX concentration(pg/mL) 0 D =4 50 (n m) 0.01 0.1 1 10 100 1,000
	with each assay. Assay Buffer A LIX concentration(pg/mL) O D =4 50 (n m) 0.1 1 10 100 1,000
	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 ru
	paper or using Sigma plot software, with standard concentration on the x-axis and absorbance
	subtract the average zero standard optical density. Plot the standard curve on log-log graph
Calculation of Results:	Calculate the mean absorbance for each set of duplicate standards, controls and samples, an
	9. Add 50 μ L of Stop Solution (Item I) to each well. Read at 450 nm immediately.
	minutes at room temperature in the dark with gentle shaking.
	8. Add 100 μL of TMB One-Step Substrate Reagent (Item H) to each well. Incubate for 30
	7. Discard the solution. Repeat the wash as in step
	Incubate for 45 minutes at room temperature with gentle shaking.
	6. Add 100 μL of prepared Streptavidin solution (see Reagent Preparation step 7) to each well.
	5. Discard the solution. Repeat the wash as in step
	 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.
	Buffer by aspirating or decanting. Invert the plate and blot it against clean paper towels.
	at each step is essential to good performance. After the last wash, remove any remaining Was
	Wash Buffer (300 myl) using a multi-channel Pipette or autowasher. Complete removal of liqu
	3. Discard the solution and wash 4 times with 1x Wash Solution. Wash by filling each well with
	gentle shaking.
	wells. Cover well and incubate for 2.5 hours at room temperature or over night at 4 °C with
	· · · · · · · · · · · · · · · · · · ·

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 4/5 | Product datasheet for ABIN625207 | 09/12/2023 | Copyright antibodies-online. All rights reserved. Handling

Avoid repeated freeze-thaw cycles.
-20 °C
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.
6 months
Collignon, Perles-Barbacaru, Robert, Silvy, Martinez, Crenon, Germain, Garcia, Viola, Lombardo, Mas, Béraud: "A pancreatic tumor-specific biomarker characterized in humans and mice as an immunogenic onco-glycoprotein is efficient in dendritic cell vaccination." in: Oncotarget , Vol. 6, Issue 27, pp. 23462-79, (2015) (PubMed).

There are more publications referencing this product on: Product page





10,000

1,000

Images