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Datasheet for ABIN625030 **IL-8 ELISA Kit**

1 Image

1 Publication



Overview

Quantity:	96 tests
Target:	IL-8 (IL8)
Reactivity:	Human
Method Type:	Sandwich ELISA
Application:	ELISA

Product Details

Purpose:	Human IL-8 (CXCL8) ELISA Kit for cell and tissue lysate samples.
Sample Type:	Cell Lysate, Tissue Lysate
Analytical Method:	Quantitative
Detection Method:	Colorimetric
Specificity:	The antibody pair provided in this kit recognizes human IL-8 / CXCL8.
Sensitivity:	1 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
Components:	 Pre-Coated 96-well Strip Microplate Wash Buffer Stop Solution Assay Diluent(s) Lyophilized Standard

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	 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
	Cell lysate buffer

Target Details

Target:	IL-8 (IL8)
Alternative Name:	IL-8 / CXCL8 (IL8 Products)
Background:	Interleukin-8 (IL-8) is a member of a family of structurally-related low molecular weight
	proinflammatory factors known as chemokines. IL-8 is produced by stimulated monocytes bu
	not by tissue macrophages and T-lymphocytes. IL-8 is a non-glycosylated protein of 8 kDa (72
	amino acids). It is produced by processing of a precursor protein of 99 amino acids. The
	Human IL-8 ELISA (Enzyme-Linked Immunosorbent Assay) kit is an in vitro enzyme-linked
	immunosorbent assay for the quantitative measurement of human IL-8 cell lysate and tissue
	lysate. This assay employs an antibody specific for human IL-8 coated on a 96-well plate.
	Standards and samples are pipetted into the wells and IL-8 present in a sample is bound to th
	wells by the immobilized antibody. The wells are washed and biotinylated anti-human IL-8
	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 IL-8 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:	3576
UniProt:	P10145
Pathways:	TLR Signaling, Cellular Response to Molecule of Bacterial Origin, Regulation of G-Protein
	Coupled Receptor Protein Signaling, ER-Nucleus Signaling, Hepatitis C, Autophagy

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Application Details

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.
	 Add 100 μL of prepared Streptavidin solution to each well. 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: Tissue lysate and cell lysate sample should be diluted at least 5-fold with 1x Sample
	Diluent Buffer. 3. Sample Diluent Buffer (Item D) and Assay Diluent (Item E) should be diluted S
	fold with deionized or distilled water before use. 4. Preparation of standard: Briefly spin the via
	of Item C. Add 800 µl 1x Sample Diluent Buffer (Item D) into Item C vial to prepare a 50 ng/ml
	standard. Dissolve the powder thoroughly by a gentle mix. Add 10 μ l IL-8 standard from the via
	of Item C, into a tube with 823.3 μ l Sample Diluent Buffer to prepare a 600 pg/ml stock
	standard solution. Pipette 400 μ l 1x Sample Diluent Buffer into each tube. Use the stock
	standard solution to produce a dilution series (shown below). Mix each tube thoroughly before
	the next transfer. 1x Sample Diluent Buffer serves as the zero standard (0 pg/ml). 5. If the Was
	Concentrate (20x) (Item B) contains visible crystals, warm to room temperature and mix gentl
	until dissolved. Dilute 20 ml of Wash Buffer Concentrate into deionized or distilled water to yie
	400 ml of 1x Wash Buffer. 6. Briefly spin the Detection Antibody vial (Item F) before use. Add
	100 µl of 1x Assay Diuent 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 Diuent and used in step 4 of Par
	VI Assay Procedure. 7. Briefly spin the HRP-Streptavidin Concentrate vial (Item G) before use.
	HRP-Streptavidin concentrate should be diluted 30,000-fold with 1x Assay Diuent. For example
	Briefly spin the vial (Item G) and pipette up and down to mix gently . Add 2 μl of HRP-
	Streptavidin concentrate into a tube with 198.0 μ l 1x Assay Diluent to prepare a 100-fold dilute
	HRP- Streptavidin solution (do not store the diluted solution for next day use). Mix through and
	then pipette 40 μ l of prepared 100-fold diluted solution into a tube with 12 ml 1x Assay Diluent
	to prepare a final 30,000 fold diluted HRP-Streptavidin solution. 8. Cell lysate buffer is diluted t

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	2-fold with deionized or distilled water (for cell lysate and tissue lysate).
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 μ l 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 μ l) 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 3. 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 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
Handling	
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

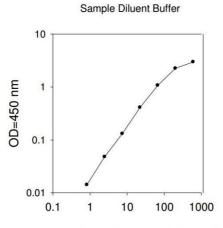
Product cited in:

Grbic, Degagné, Langlois, Dupuis, Gendron: "Intestinal inflammation increases the expression of the P2Y6 receptor on epithelial cells and the release of CXC chemokine ligand 8 by UDP." in:

Journal of immunology (Baltimore, Md.: 1950), Vol. 180, Issue 4, pp. 2659-68, (2008) (

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Images



ELISA

Image 1.

Human IL-8 concentration (pg/ml)

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