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Datasheet for ABIN625272 **CA9 ELISA Kit**

Image



Overview

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Quantity:	96 tests
Target:	CA9
Reactivity:	Human
Method Type:	Sandwich ELISA
Detection Range:	0.2-50 pg/mL
Minimum Detection Limit:	0.2 pg/mL
Application:	ELISA

Product Details

Purpose:	Human CA9 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:	< 0.2 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 μ L to 1 μ L 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:	CA9
Abstract:	CA9 Products
Background:	The Human CA-IX (Carbonic Anhydrase IX) ELISA (Enzyme-Linked Immunosorbent Assay) kit is an in vitro enzyme-linked immunosorbent assay for the quantitative measurement of human CA-IX in serum, plasma, cell culture supernatants and urine. This assay employs an antibody specific for human CA-IX coated on a 96-well plate. Standards and samples are pipetted into the wells and CA-IX present in a sample is bound to the wells by the immobilized antibody. The wells are washed and biotinylated anti-human CA-IX 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 CA-IX 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:	768

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Target Details

UniProt:

Q16790

Application Details

Application Notes:	Recommended Dilution for serum and plasma samples5 - 50 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.
	 Add 100 μL of prepared Streptavidin solution to each well. 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 C (Item L) should be used
	for dilution of serum/plasma/culture supernatants/urine. Suggested dilution for normal
	serum/plasma: 5-50 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 µL Assay Diluent C (Item L)
	into Item C vial to prepare a 3,000 pg/mL standard solution. Dissolve the powder thoroughly b
	a gentle mix. Add 10 µL CA-IX standard from the vial of Item C, into a tube with 590 µL Assay
	Diluent C to prepare a 50 pg/mL standard solution. Pipette 300myl 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 μ L 10 μ L
	standard + 590 μL 200myl 200 μL 200 μL 200 μL 200 μL 50 20 8 3.2 1.28 0.512 0.205 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
	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 μ L 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 200-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 50 μL of HRP-Streptavidin concentrate into a tube with 10 ml 1x Assay Diluent B to
	prepare a 200-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 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
	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.
	Typical Data: These standard curves are for demonstration only. A standard curve must be run
	with each assay. Assay Diluent C Human CA IX concentration (pg/mL) 0.1 1 10 100 O D =4 50 n

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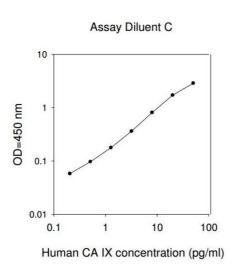
	m 0.01 0.1 1 10
	Sensitivity: The minimum detectable dose of CA-IX is typically less than 0.2 pg/mL.
	Recovery: Recovery was determined by spiking various levels of CA-IX into normal human
	serum, plasma and cell culture media. Mean recoveries are as follows: Sample Type Average $\%$
	Recovery Range (%) Serum 123.7 110-137 Plasma 116.0 100-141 Cell culture media 116.6
	101-131
	Linearity: Sample Type Serum Plasma Cell Culture Media 1:2 Average % of Expected 98.66
	98.83 112.1 Range (%) 90-106 90-106 104-120 1:4 Average % of Expected 116.1 77.84 97.64
	Range (%) 108-124 69-85 80-115
	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.

Images

Expiry Date:

Storage:

Storage Comment:



-20 °C

6 months

recommended to store at -80°C.

ELISA Image 1.

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

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