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Datasheet for ABIN625286 PARN ELISA Kit

Image



Overview

Quantity:	96 tests
Target:	PARN
Reactivity:	Human
Method Type:	Sandwich ELISA
Detection Range:	35-20000 pg/mL
Minimum Detection Limit:	35 pg/mL
Application:	ELISA

Product Details

Purpose:	Human DAN 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:	< 35 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 MicroplateWash 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:	PARN
Alternative Name:	DAN (PARN Products)
Background:	The Human DAN (different screening-selected gene aberrant in neuroblastoma) ELISA
	(Enzyme-Linked Immunosorbent Assay) kit is an in vitro enzyme-linked immunosorbent assay
	for the quantitative measurement of human DAN in serum, plasma, cell culture supernatants
	and urine. This assay employs an antibody specific for human DAN coated on a 96-well plate.
	Standards and samples are pipetted into the wells and DAN present in a sample is bound to the
	wells by the immobilized antibody. The wells are washed and biotinylated anti-human DAN
	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 DAN 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:	5073

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Target Details

UniProt:

095453

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 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 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 is used for dilutior
	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 50 ng/mL standard. Dissolve the powder thoroughly by a gentle mix. Add
	200 µL DAN standard (50 ng/mL) from the vial of Item C, into a tube with 300 µL Assay Diluent
	A or 1x Assay Diluent B to prepare a 20,000 pg/mL standard solution. Pipette 400 µL Assay
	Diluent A or 1x Assay Diluent B into each tube. Use the 20,000 pg/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 200 μL standard + 300 μL
	200myl 200 μL 200 μL 200 μL 200 μL 20,000 6,667 2,222 740.7 246.9 82.30 27.43 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

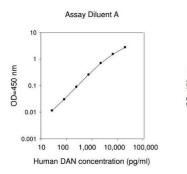
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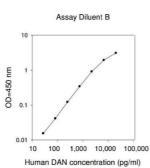
Application Details

	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 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 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 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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tion (pg/mL) O D =4 50 n m 0.001 0.01
uman DAN concentration (pg/mL) O D
cally less than 35 pg/mL.
evels human DAN into human serum,
llows: Sample Type Average %
72-90 Cell culture media 111.3 107-
1:2 Average % of Expected 107.5
e % of Expected 93.55 78.97 98.41
%
n the date of shipment. Avoid repeated
n the date of shipment. Avoid repeated o 6 months. For extended storage, it is





ELISA

Image 1.