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# Datasheet for ABIN625318 IL1R2 ELISA Kit

1 Image

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#### Overview

Quantity:	96 tests
Target:	IL1R2
Reactivity:	Human
Method Type:	Sandwich ELISA
Detection Range:	5-3000 pg/mL
Minimum Detection Limit:	5 pg/mL
Application:	ELISA

## Product Details

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, I 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- IFN-gamma, IGFBP-2, IGFBP-3, IGFBP-4, Leptin (OB), MCP-1, MCP-2, MCP-3, MDC, MIF, N MIP-1 alpha, MIP-1 beta , MIP-1 delta, PARC, PDGF, RANTES, SCF, SDF-1 alpha, TARC, TG beta, TIMP-1, TIMP-2, TNF-alpha, TNF-beta, TPO, VEGF.		
Analytical Method:       Quantitative         Detection Method:       Colorimetric         Specificity:       This ELISA kit shows no cross-reactivity with the following cytokines tested: human Angie         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, I         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-IFN-gamma, IGFBP-2, IGFBP-3, IGFBP-4, Leptin (OB), MCP-1, MCP-2, MCP-3, MDC, MIF, N         MIP-1 alpha, MIP-1 beta , MIP-1 delta, PARC, PDGF, RANTES, SCF, SDF-1 alpha, TARC, TO beta, TIMP-1, TIMP-2, TNF-alpha, TNF-beta, TPO, VEGF.	Purpose:	Human IL-1 R2 ELISA Kit for cell culture supernatants, plasma, and serum samples.
Detection Method:ColorimetricSpecificity:This ELISA kit shows no cross-reactivity with the following cytokines tested: human Angie 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, I 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- IFN-gamma, IGFBP-2, IGFBP-3, IGFBP-4, Leptin (OB), MCP-1, MCP-2, MCP-3, MDC, MIF, N MIP-1 alpha, MIP-1 beta , MIP-1 delta, PARC, PDGF, RANTES, SCF, SDF-1 alpha, TARC, TO beta, TIMP-1, TIMP-2, TNF-alpha, TNF-beta, TPO, VEGF.	Sample Type:	Plasma, Cell Culture Supernatant, Serum
Specificity: This ELISA kit shows no cross-reactivity with the following cytokines tested: human Angie 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, I 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- IFN-gamma, IGFBP-2, IGFBP-3, IGFBP-4, Leptin (OB), MCP-1, MCP-2, MCP-3, MDC, MIF, N MIP-1 alpha, MIP-1 beta , MIP-1 delta, PARC, PDGF, RANTES, SCF, SDF-1 alpha, TARC, TO beta, TIMP-1, TIMP-2, TNF-alpha, TNF-beta, TPO, VEGF.	Analytical Method:	Quantitative
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, I 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- IFN-gamma, IGFBP-2, IGFBP-3, IGFBP-4, Leptin (OB), MCP-1, MCP-2, MCP-3, MDC, MIF, N MIP-1 alpha, MIP-1 beta , MIP-1 delta, PARC, PDGF, RANTES, SCF, SDF-1 alpha, TARC, TG beta, TIMP-1, TIMP-2, TNF-alpha, TNF-beta, TPO, VEGF.	Detection Method:	Colorimetric
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- IFN-gamma, IGFBP-2, IGFBP-3, IGFBP-4, Leptin (OB), MCP-1, MCP-2, MCP-3, MDC, MIF, N MIP-1 alpha, MIP-1 beta , MIP-1 delta, PARC, PDGF, RANTES, SCF, SDF-1 alpha, TARC, TG beta, TIMP-1, TIMP-2, TNF-alpha, TNF-beta, TPO, VEGF.	Specificity:	This ELISA kit shows no cross-reactivity with the following cytokines tested: human Angiogenin,
IFN-gamma, IGFBP-2, IGFBP-3, IGFBP-4, Leptin (OB), MCP-1, MCP-2, MCP-3, MDC, MIF, M MIP-1 alpha, MIP-1 beta , MIP-1 delta, PARC, PDGF, RANTES, SCF, SDF-1 alpha, TARC, TG beta, TIMP-1, TIMP-2, TNF-alpha, TNF-beta, TPO, VEGF.		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-
MIP-1 alpha, MIP-1 beta , MIP-1 delta, PARC, PDGF, RANTES, SCF, SDF-1 alpha, TARC, TG beta, TIMP-1, TIMP-2, TNF-alpha, TNF-beta, TPO, VEGF.		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,
beta, TIMP-1, TIMP-2, TNF-alpha, TNF-beta, TPO, VEGF.		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: 5 pg/mL	Sensitivity:	5 pg/mL

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#### Product Details

Characteristics:	<ul> <li>Strip plates and additional reagents allow for use in multiple experiments</li> <li>Quantitative protein detection</li> <li>Establishes normal range</li> <li>The best products for confirmation of antibody array data</li> </ul>
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 $\mu$ L to 1 $\mu$ L volumes
	<ul> <li>Adjustable 1-25 µL pipettes for reagent preparation</li> </ul>
	<ul> <li>100 µL and 1 liter graduated cylinders</li> </ul>
	<ul> <li>Tubes to prepare standard and sample dilutions</li> </ul>
	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:	IL1R2
Alternative Name:	IL-1 R2 (IL1R2 Products)
Background:	The Human IL1sRII (interleukin 1 soluble receptor II) ELISA (Enzyme-Linked Immunosorbent
	Assay) kit is an in vitro enzyme-linked immunosorbent assay for the quantitative measurement
	of human IL1sRII in serum, plasma, cell culture supernatants and urine. This assay employs an
	antibody specific for human IL1sRII coated on a 96-well plate. Standards and samples are
	pipetted into the wells and IL1sRII present in a sample is bound to the wells by the immobilized
	antibody. The wells are washed and biotinylated anti-human IL1sRII 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 IL1sRII 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:	7850

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#### Target Details

UniProt:	P27930
Pathways:	NF-kappaB Signaling

## Application Details

Application Notes:	Recommended Dilution for serum and plasma samples20 - 200 fold
Sample Volume:	100 μL
Plate:	Pre-coated
Protocol:	1. Prepare all reagents, samples and standards as instructed in the manual.
	2. Add 100 $\mu L$ of standard or sample to each well.
	3. Incubate 2.5 h at RT or O/N at 4 °C.
	4. Add 100 $\mu$ L of prepared biotin antibody to each well.
	5. Incubate 1 h at RT.
	6. Add 100 $\mu$ L of prepared Streptavidin solution to each well.
	7. Incubate 45 min at RT.
	8. Add 100 $\mu$ L of TMB One-Step Substrate Reagent to each well.
	9. Incubate 30 min at RT.
	10. Add 50 $\mu$ 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: Assay Diluent A (Item D) is used for dilution of serum/plasma samples, 1x Assay
	Diluent B (Item E) can be used for dilution of cell culture supernates/urine. 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 $\mu$ l 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 30 $\mu I$ IL1sRII standard (50
	ng/ml) from the vial of Item C, into a tube with 470 $\mu$ l Assay Diluent A or 1x Assay Diluent B to
	prepare a 3,000 pg/ml standard solution. Pipette 400 $\mu$ l Assay Diluent A or 1x Assay Diluent B
	into each tube. Use the 3,000 pg/ml standard solution to produce a dilution series (shown
	below). Mix each tube thoroughly before the next transfer. Gently vortex to mix. Assay Diluent A
	or 1x Assay Diluent B serves as the zero standard (0 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. 6. Briefly spin the Detection Antibody vial (Item F) before use. Add 100 $\mu l$ 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

#### Application Details

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 25,000-fold with 1x Assay Diluent B. 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 µl 1x Assay Diluent B to prepare a 100-fold diluted HRP- Streptavidin solution (do not store the diluted solution for next day use). Mix through and then pipette 40 µl of prepared 100-fold diluted solution into a tube with 10 ml 1x Assay Diluent B to prepare a final 25,000 fold diluted HRP-Streptavidin solution.

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 μl) 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 3. 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 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:

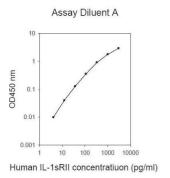
For Research Use only

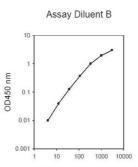
#### Handling

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

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	recommended to store at -80°C.
Expiry Date:	6 months
Publications	
Product cited in:	Nirala, Perumal, Gohil: "Glycated serum albumin stimulates expression of endothelial cell
	specific molecule-1 in human umbilical vein endothelial cells: Implication in diabetes mediated
	endothelial dysfunction." in: Diabetes & vascular disease research, Vol. 12, Issue 4, pp. 290-7,
	2015) (PubMed).
	Nirala, Gohil: "Effect of garlic component s-allyl cysteine sulfoxide on glycated human serum
	albumin induced activation of endothelial cells: an in vitro study." in: European review for
	medical and pharmacological sciences, Vol. 19, Issue 11, pp. 2125-31, (2015) (PubMed).
	Bala, Gohil: "Interaction of glycated protein and DFO mimicked hypoxia in cellular responses of
	HUVECs." in: Molecular bioSystems, Vol. 8, Issue 10, pp. 2657-63, (2012) (PubMed).
	Bala, Gomes, Gohil: "Interaction of glycated human serum albumin with endothelial cells in a
	hemodynamic environment: structural and functional correlates." in: Molecular bioSystems,
	Vol. 7, Issue 11, pp. 3036-41, (2012) (PubMed).
	Chima, LaMontagne, Piraino, Hake, Denenberg, Zingarelli: "C-peptide, a novel inhibitor of lung
	inflammation following hemorrhagic shock." in: American journal of physiology. Lung cellular
	and molecular physiology, Vol. 300, Issue 5, pp. L730-9, (2011) (PubMed).





Human IL-1sRII concentratiuon (pg/ml)

## ELISA

Image 1.

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