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Datasheet for ABIN411383 IL-18 ELISA Kit

1 Image

7 Publications



Overview

Quantity:	96 tests
Target:	IL-18 (IL18)
Binding Specificity:	AA 37-194
Reactivity:	Rat
Method Type:	Sandwich ELISA
Detection Range:	15.6-1000 pg/mL
Minimum Detection Limit:	15.6 pg/mL
Application:	ELISA

Product Details

Sandwich High Sensitivity ELISA kit for Quantitative Detection of Rat IL-18
PicoKine™
Cell Culture Supernatant, Serum, Plasma (heparin), Plasma (EDTA)
Quantitative
Colorimetric
Expression system for standard: E.coli Immunogen sequence: H37-S194
Expression system for standard: E.coli Immunogen sequence: H37-S194
There is no detectable cross-reactivity with other relevant proteins.

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 ABIN411383 | 09/12/2023 | Copyright antibodies-online. All rights reserved.

Product Details

Sensitivity:	<1pg/mL
Material not included:	Microplate reader in standard size. Automated plate washer. Adjustable pipettes and pipette
	tips. Multichannel pipettes are recommended in the condition of large amount of samples in the
	detection. Clean tubes and Eppendorf tubes. Washing buffer (neutral PBS or TBS). Preparation
	of 0.01M TBS: Add 1.2g Tris, 8.5g Nacl

Target Details

Plate:

Target:	IL-18 (IL18)
Alternative Name:	IL18 (IL18 Products)
Background:	Protein Function: Augments natural killer cell activity in spleen cells and stimulates interferon
	gamma production in T-helper type I cells.
	Background: Interleukin(IL)-18, also called Interferon-gamma-inducing factor(IGIF), augments
	natural killer(NK) activity in spleen cells. The gene encodes a precursor protein of 192 amino
	acids and a mature protein of 157 amino acids.1 IL-18 is a recently discovered cytokine that
	modulates both T helper type 1(Th1) and Th2 responses.2 IL-18 is a potent proinflammatory
	cytokine with potential atherogenic properties. It is highly expressed in the atherosclerotic
	plaques compared with control normal arteries and is localized mainly in plaque
	macrophages.3
	Synonyms: Interleukin-18,IL-18,Interferon gamma-inducing factor,IFN-gamma-inducing
	factor,Interleukin-1 gamma,IL-1 gamma,II18,Igif,
	Full Gene Name: Interleukin-18
	Cellular Localisation: Secreted.
Gene ID:	29197
UniProt:	P97636
Pathways:	Cellular Response to Molecule of Bacterial Origin, Activated T Cell Proliferation, Cancer Immune
	Checkpoints, Inflammasome
Application Details	
Application Notes:	Before using Kit, spin tubes and bring down all components to bottom of tube. Duplicate well
	assay was recommended for both standard and sample testing.

Protocol:	rat IL-18 ELISA Kit was based on standard sandwich enzyme-linked immune-sorbent assay

Pre-coated

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 ABIN411383 | 09/12/2023 | Copyright antibodies-online. All rights reserved.

Application Details

technology. A monocional antibody from mouse specific for IL-18 has been precoated onto 96-well plates. Standards(E coli, H37-S194) and test samples are added to the wells, a biotinylated detection polycional antibody from goat specific for IL-18 is added subsequently and then followed by washing with PBS or TBS buffer. Axidn-Biotin-Peroxidase Complex was added and unbound conjugates were washed away with PBS or TBS buffer. HRP substrate TMB was used to visualize HRP enzymatic reaction. TMB was used to visualize HRP enzymatic reaction. TMB was used to visualize HRP enzymatic reaction. TMB was used by product that changed into yellow after adding addie stop solution. The density of yellow is proportional to the rat IL-18 amount of sample captured in plate. Assay Procedure: Aliquot 0.1 mL per well of the 1000pg/mL 250pg/mL 250pg/mL 250pg/mL 250pg/mL, 250pg		
detection polyclonal antibody from goat specific for IL-18 is added subsequently and then followed by washing with PBS or TBS buffer. Avdim Biotin-Peroxidase Complex was added and unbound conjugates were washed away with PBS or TBS buffer. HRP substrate TMB was used to visualize HRP enzymatic reaction. TMB was catalyzed by HRP to produce a blue color product that changed into yellow after adding acidic stop solution. The density of yellow is assay Procedure: Aliquot 0.1 mL per well of the 1000pg/mL, S00pg/mL, 250pg/mL, 125pg/mL, 62.5pg/mL, assay Procedure: Aliquot 0.1 mL per well of the 1000pg/mL, S00pg/mL, 250pg/mL, 125pg/mL, 62.5pg/mL, assay Procedure: Aliquot 0.1 mL per well of the 1000pg/mL, S00pg/mL, 250pg/mL, 125pg/mL, 62.5pg/mL, assay Procedure: Sample Signapic Dilution Guideline: above for details: It is recommended that each rat L12 standard solution and each sample be measured in duplicate. Sample 1:n=16, Mean(pg/m); 126, Standard deviation: 6, CV(%): 4.7 Assay Precision: Sample 1:n=16, Mean(pg/m); 137, Standard deviation: 7.94, CV(%): 5.8 Sample 2:n=16, Mean(pg/m); 137, Standard deviation: 7.94, CV(%): 5.3 Sample 3:n=16, Mean(pg/m); 335, Standard deviation: 7.94, CV(%): 5.3 Sample 3:n=16, Mean(pg/m); 335, Standard deviation: 7.94, CV(%): 5.3 Sample 3:n=24, Mean(pg/m); 344, Standard deviation: 4.64, CV(%): 7.2 Handling Store at 4°C for 6 months, at -20°C for 12 months		technology. A monoclonal antibody from mouse specific for IL-18 has been precoated onto 96-
followed by washing with PBS or TBS buffer. Avdin Biotin Peroxidase Complex was added and unbound conjugates were washed away with PBS or TBS buffer. HRP substrate TMB was used to visualize HRP enzymatic reaction. TMB was catalyzed by HRP to produce a blue color product that changed into yellow after adding adidic stop solution. The density of yellow is proportional to the rat IL-18 amount of sample captured in plate.Assay Procedure:Aliquot 0.1 mL per well of the 1000pg/mL, 500pg/mL, 250pg/mL, 125pg/mL, 62.5pg/mL, 31 2pg/mL, 15.6pg/mL rat IL-18 standard solutions into the precosted 96-well plate. Add 0.1 mL of the sample diluent buffer into the control well (Zero well). Add 0.1 mL of each properly diluted sample of rat cell culture supernates, serum or plasma(heparin, EDTA) to each empty well. See 'Sample Dilution Guideline' above for details. It is recommended that each rat IL-18 standard solution and each sample be measured in duplicate.Assay Precision:Sample 1: n=16, Mean(ng/ml), 126, Standard deviation: 6, CV(%): 5, 7, Sample 2: n=16, Mean(ng/ml), 126, Standard deviation: 7, 94, CV(%): 5, 2, Sample 2: n=16, Mean(ng/ml), 126, Standard deviation: 7, 94, CV(%): 5, 2, Sample 2: n=24, Mean(ng/ml), 126, Standard deviation: 7, 94, CV(%): 5, 4, Sample 2: n=24, Mean(ng/ml), 126, Standard deviation: 24, 7, CV(%): 6, 3, Sample 3: n=24, Mean(ng/ml), 126, Standard deviation: 24, 7, CV(%): 6, 3, Sample 3: n=24, Mean(ng/ml), 126, Standard deviation: 24, CV(%): 5, 4, Sample 3: n=24, Mean(ng/ml), 644, Standard deviation: 4, 4, CV(%): 7, 2HandlingItandingHandlingItanditicPublicationsItan mothsPublicationsItan mothsPublicationsItan mothsPublicationsRubik, Wishiowska Smiałek, Wypasek, Rudnicka Sosin, Hlawaty, Leśniak Sobelga, Kostkiewic		well plates. Standards(E.coli, H37-S194) and test samples are added to the wells, a biotinylated
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 Sample 3: n=16, Mean(pg/ml): 592, Standard deviation: 36.7, CV(%): 6.2, Sample 1: n=24, Mean(pg/ml): 147, Standard deviation: 7.94, CV(%): 5.4 Sample 2: n=24, Mean(pg/ml): 392, Standard deviation: 24.7, CV(%): 6.3 Sample 3: n=24, Mean(pg/ml): 644, Standard deviation: 46.4, CV(%): 7.2 Restrictions: For Research Use only Handling Handling Advice: Avoid multiple freeze-thaw cycles. Storage: -20 °C,4 °C Storage Comment: Store at 4°C for 6 months, at -20°C for 12 months. Avoid multiple freeze-thaw cycles Expiry Date: 12 months Publications Product cited in: Rubiś, Wiśniowska-Smiałek, Wypasek, Rudnicka-Sosin, Hlawaty, Leśniak-Sobelga, Kostkiewicz, Podolec et al.: '12-month patterns of serum markers of collagen synthesis, transforming growth factor and connective tissue growth factor are similar in new-onset and chronic dilated 	Assay Precision:	• Sample 1: n=16, Mean(pg/ml): 126, Standard deviation: 6, CV(%): 4.7
 Sample 1: n=24, Mean(pg/ml): 147, Standard deviation: 7.94, CV(%): 5.4 Sample 2: n=24, Mean(pg/ml): 392, Standard deviation: 24.7, CV(%): 6.3 Sample 3: n=24, Mean(pg/ml): 644, Standard deviation: 46.4, CV(%): 7.2 Restrictions: For Research Use only Handling Handling Advice: Avoid multiple freeze-thaw cycles. Storage: -20 °C,4 °C Storage Comment: Store at 4°C for 6 months, at -20°C for 12 months. Avoid multiple freeze-thaw cycles Expiry Date: 12 months Publications Product cited in: Rubiś, Wiśniowska-Smiałek, Wypasek, Rudnicka-Sosin, Hlawaty, Leśniak-Sobelga, Kostkiewicz, Podolec et al.: "12-month patterns of serum markers of collagen synthesis, transforming growth factor and connective tissue growth factor are similar in new-onset and chronic dilated 		
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Podolec et al.: "12-month patterns of serum markers of collagen synthesis, transforming growth factor and connective tissue growth factor are similar in new-onset and chronic dilated	Publications	
growth factor and connective tissue growth factor are similar in new-onset and chronic dilated	Product cited in:	Rubiś, Wiśniowska-Smiałek, Wypasek, Rudnicka-Sosin, Hlawaty, Leśniak-Sobelga, Kostkiewicz,
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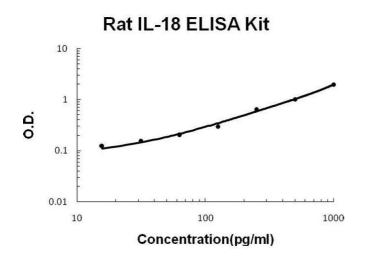
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Image 1. Rat IL-18 PicoKine ELISA Kit standard curve

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