# ANTIBODIES ONLINE

# Datasheet for ABIN1889453 CRP ELISA Kit

1 Image

5 Publications



## Overview

Quantity:	96 tests
Target:	CRP
Binding Specificity:	AA 17-224
Reactivity:	Human
Method Type:	Sandwich ELISA
Detection Range:	1.56-100 ng/mL
Minimum Detection Limit:	1.56 ng/mL
Application:	ELISA

## Product Details

Purpose:	Sandwich High Sensitivity ELISA kit for Quantitative Detection of Human CRP
Brand:	PicoKine™
Sample Type:	Cell Culture Supernatant, Serum, Plasma (heparin), Plasma (EDTA)
Analytical Method:	Quantitative
Detection Method:	Colorimetric
Immunogen:	Expression system for standard: NSO Immunogen sequence: F17-P224
Specificity:	Expression system for standard: NSO Immunogen sequence: F17-P224
Cross-Reactivity (Details):	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 1/4 | Product datasheet for ABIN1889453 | 07/26/2024 | Copyright antibodies-online. All rights reserved.

## Product Details

Sensitivity:	<10pg/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

Target:	CRP
Alternative Name:	C-Reactive Protein (CRP Products)
Background:	Protein Function: Displays several functions associated with host defense: it promotes
	agglutination, bacterial capsular swelling, phagocytosis and complement fixation through its
	calcium-dependent binding to phosphorylcholine. Can interact with DNA and histones and may
	scavenge nuclear material released from damaged circulating cells.
	Background: C Reactive Protein (CRP) is a major acute phase reactant synthesized primarily in
	the liver hepatocytes. It is composed of 5 identical, 21,500-molecular weight subunits. CRP
	mediates activities associated with preimmune nonspecific host resistance. CRP shows the
	strongest association with cardiovascular events. It is detectable on the surface of about 4 $\%$ o
	normal peripheral blood lymphocytes. Acute phase reactant CRP is produced in the liver.
	Synonyms: C-reactive protein,C-reactive protein(1-205),CRP,PTX1,
	Full Gene Name: C-reactive protein
	Cellular Localisation: Secreted.
Gene ID:	1401
UniProt:	P02741
Pathways:	Carbohydrate Homeostasis
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.
Comment:	Sequence similarities: Belongs to the pentaxin family.
	Tissue Specificity: Found in plasma.
Plate:	Pre-coated
Protocol:	human CRP ELISA Kit was based on standard sandwich enzyme-linked immune-sorbent assay

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## Application Details

well plates. Standards(NSO, F17+224) and test samples are added to the wells, a biotinylated detection polyclonal antibody from goat specific for CRP is added subsequently and then followed by washing with PBS or TBS buffer. Aidin-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 proportional to the human CRP amount of sample captured in plate.         Assay Procedure:       Aliquot 0.1 mL per well of the 100 ng/mL, 50 ng/mL, 125 ng/mL, 1.25 ng/mL, 6.25 ng/mL, 3.12 ng/mL, 1.56 ng/mL, 1.56 ng/mL, 1.05 ng/mL, 1.25 ng/mL, 0.25 ng/mL, 0.1 mL of the sample of human cell culture supmates, serum or plasma[heparin, EDTA) to each empty well. See "Sample Dilution Guideline" above for details. It is recommended that each human CRP standard solution and each sample of each advision: 1.925, CV(%): 5.5         Assay Precision:       Sample 1: n=16, Mean(ng/ml): 16.1, Standard deviation: 1.926, CV(%): 6.8         Sample 2: n=16, Mean(ng/ml): 35, Standard deviation: 1.926, CV(%): 7.2, Sample 3: n=24, Mean(ng/ml): 30, Standard deviation: 4.453, CV(%): 7.3         Restrictions:       For Research Use only         Handling       Indultiple freeze-thaw cycles.         Handling       20 °C,4 °C         Storage Comment:       Store at 4°C for 6 months, at -20°C for 12 months. Avoid multiple freeze-thaw cycles         Exply Date:       12 months         Publications       Kob, Park: "Responses of inflammatory cytokines following moderate intensity walk		
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<ul> <li>Sample 3: n=16, Mean(ng/ml): 60, Standard deviation: 4.32, CV(%): 7.2,</li> <li>Sample 1: n=24, Mean(ng/ml): 13.6, Standard deviation: 1.088, CV(%): 6.8</li> <li>Sample 2: n=24, Mean(ng/ml): 32.8, Standard deviation: 2.099, CV(%): 6.4</li> <li>Sample 3: n=24, Mean(ng/ml): 61, Standard deviation: 4.453, CV(%): 7.3</li> </ul> Restrictions: <ul> <li>For Research Use only</li> <li>Handling</li> <li>Handling Advice:</li> <li>Avoid multiple freeze-thaw cycles.</li> <li>Storage:</li> <li>-20 °C,4 °C</li> <li>Storage Comment:</li> <li>Store at 4°C for 6 months, at -20°C for 12 months. Avoid multiple freeze-thaw cycles</li> <li>Expiry Date:</li> <li>12 months</li> <li>Publications</li> <li>Koh, Park: "Responses of inflammatory cytokines following moderate intensity walking exercise in overweight or obese individuals." in: Journal of exercise rehabilitation, Vol. 13, Issue 4, pp.</li> </ul>	Assay Precision:	<ul> <li>Sample 1: n=16, Mean(ng/ml): 16.1, Standard deviation: 0.080, CV(%): 5</li> </ul>
<ul> <li>Sample 1: n=24, Mean(ng/m): 13.6, Standard deviation: 1.088, CV(%): 6.8</li> <li>Sample 2: n=24, Mean(ng/m): 32.8, Standard deviation: 2.099, CV(%): 6.4</li> <li>Sample 3: n=24, Mean(ng/m): 61, Standard deviation: 4.453, CV(%): 7.3</li> <li>Restrictions: For Research Use only</li> <li>Handling</li> <li>Handling Advice: Avoid multiple freeze-thaw cycles.</li> <li>Storage: -20 °C,4 °C</li> <li>Storage Comment: Store at 4°C for 6 months, at -20°C for 12 months. Avoid multiple freeze-thaw cycles</li> <li>Expiry Date: 12 months</li> <li>Publications</li> <li>Koh, Park: "Responses of inflammatory cytokines following moderate intensity walking exercise in overweight or obese individuals." in: Journal of exercise rehabilitation, Vol. 13, Issue 4, pp.</li> </ul>		<ul> <li>Sample 2: n=16, Mean(ng/ml): 35, Standard deviation: 1.925, CV(%): 5.5</li> </ul>
<ul> <li>Sample 2: n=24, Mean(ng/ml): 32.8, Standard deviation: 2.099, CV(%): 6.4</li> <li>Sample 3: n=24, Mean(ng/ml): 61, Standard deviation: 4.453, CV(%): 7.3</li> <li>Restrictions: For Research Use only</li> <li>Handling</li> <li>Handling Advice: Avoid multiple freeze-thaw cycles.</li> <li>Storage: -20 °C,4 °C</li> <li>Storage Comment: Store at 4°C for 6 months, at -20°C for 12 months. Avoid multiple freeze-thaw cycles</li> <li>Expiry Date: 12 months</li> <li>Publications</li> <li>Koh, Park: "Responses of inflammatory cytokines following moderate intensity walking exercise in overweight or obese individuals." in: Journal of exercise rehabilitation, Vol. 13, Issue 4, pp.</li> </ul>		<ul> <li>Sample 3: n=16, Mean(ng/ml): 60, Standard deviation: 4.32, CV(%): 7.2,</li> </ul>
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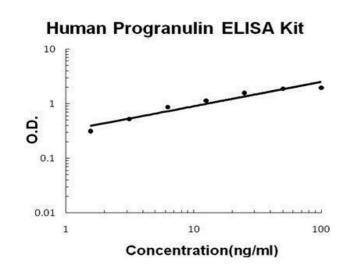
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### Images



### ELISA

Image 1. Human CRP PicoKine ELISA Kit standard curve