



Rat C-Reactive Protein,CRP ELISA Kit

Product Code	CSB-E07922r
Abbreviation	CRP
Protein Biological Process 1	Immunity
Target Name	C-reactive protein, pentraxin-related
Uniprot No.	P48199
Alias	MGC149895, MGC88244, PTX1
Product Type	ELISA Kit
Immunogen Species	Rattus norvegicus (Rat)
Protein Biological Process 3	Acute phase
Sample Types	serum, plasma, cell culture supernates, tissue homogenates, cell lysates
Detection Range	31.25 ng/mL-2000 ng/mL
Sensitivity	7.81 ng/mL
Assay Time	1-5h
Sample Volume	50-100ul
Detection Wavelength	450 nm
Lead Time	3-5 working days after you place the order, and it takes another 3-5 days for delivery via DHL or FedEx.
Research Area	Immunology
Gene Names	Crp
Tag Info	quantitative
Protein Description	Sandwich

Description

This Rat CRP ELISA Kit was designed for the quantitative measurement of Rat CRP protein in serum, plasma, cell culture supernates, tissue homogenates, cell lysates. It is a Sandwich ELISA kit, its detection range is 31.25 ng/mL-2000 ng/mL and the sensitivity is 7.81 ng/mL .

Target Details

This protein belongs to the pentaxin family. It is involved in several host defense related functions based on its ability to recognize foreign pathogens and damaged cells of the host and to initiate their elimination by interacting with humoral and cellular effector systems in the blood. Consequently, the level of this protein in plasma increases greatly during acute phase response to tissue injury, infection, or other inflammatory stimuli.

Product Precision Intra-assay Precision (Precision within an assay): CV%<8%



Three samples of known concentration were tested twenty times on one plate to assess.

Inter-assay Precision (Precision between assays): CV%<10%

Three samples of known concentration were tested in twenty assays to assess.

Linearity

To assess the linearity of the assay, samples were spiked with high concentrations of rat CRP in various matrices and diluted with the Sample Diluent to produce samples with values within the dynamic range of the assay.

?	Sample	Serum(n=4)
1:1	Average %	92
	Range %	88-96
1:2	Average %	89
	Range %	85-96
1:4	Average %	93
	Range %	89-97
1:8	Average %	99
	Range %	92-105

Recovery

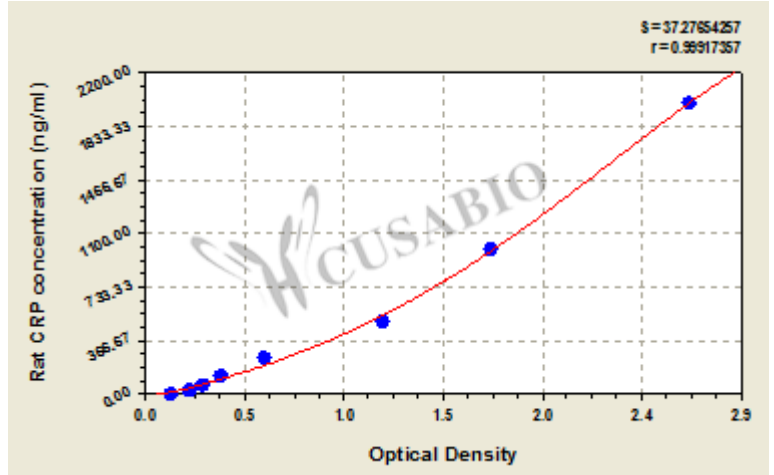
The recovery of rat CRP spiked to levels throughout the range of the assay in various matrices was evaluated. Samples were diluted prior to assay as directed in the Sample Preparation section.

	Sample Type	Average % Recovery	Range
	Serum (n=5)	93	88-97
	EDTA plasma (n=4)	96	91-99

Typical



These standard curves are provided for demonstration only. A standard curve should be generated for each set of samples assayed.



ng/ml	OD1	OD2	Average	Corrected
2000	2.664	2.701	2.683	2.541
1000	1.701	1.716	1.709	1.567
500	1.173	1.182	1.178	1.036
250	0.604	0.589	0.597	0.455
125	0.398	0.372	0.385	0.243
62.5	0.302	0.288	0.295	0.153
31.25	0.234	0.227	0.231	0.089
0	0.144	0.140	0.142	?

Msds

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