



CRP Polyclonal Antibody

Catalog NumberPA1-29087

Product data sheet

Details		Species Reactivity	
Size	500 µL	Species reactivity	Human
Host/Isotope	Rabbit / IgG	Published species	Bovine
Class	Polyclonal	Tested Applications	Dilution *
Type	Antibody	ELISA (ELISA)	Assay-dependent
Immunogen	Purified human C-reactive protein.	Immunoprecipitation (IP)	Assay-dependent
Conjugate	Unconjugated	Radioimmune Assays (RIA)	Assay-dependent
Form	Liquid	Published Applications	
Concentration	9.9 mg/mL	Flow Cytometry (Flow)	See 1 publications below
Purification	Ion-exchange chromatography	* Suggested working dilutions are given as a guide only. It is recommended that the user titrate the product for use in their own experiment using appropriate negative and positive controls.	
Storage buffer	PBS, pH 7.2-7.4		
Contains	0.1% sodium azide		
Storage Conditions	Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.		

Product specific information

Store product as a concentrated solution. Centrifuge briefly prior to opening the vial.

Background/Target Information

CRP (C-reactive protein) is a major cyclic, pentameric acute phase protein compound consisting of five identical, noncovalently bound, nonglycosylated subunits. Each subunit is made up of 206 amino acids, and has a molecular weight of 24 kDa. CRP is produced by the liver, and its plasma levels rise dramatically during inflammatory processes occurring in the body. CRP is an initiator of classical complement cascade, binds to several nuclear components (chromatin, histones, etc.), plays an important role in innate immunity, and mediates activities associated with pre-immune nonspecific host resistance. Specifically, there is a 100-1000 fold increase of CRP in response to injury, infection or inflammation. CRP is opsonic, an initiator of the classical complement cascade, and an activator of monocytes/macrophages. CRP also binds to several nuclear components including chromatin, histones and snRNP, suggesting that it may play a role as a scavenger during cell necrosis. CRP is involved in several host defense related functions based on its ability to recognize foreign pathogens and damaged cells of the host, and initiates pathogen elimination by interacting with humoral and cellular effector systems in the blood. Patients with elevated basal levels of CRP have been shown to be an increased risk for hypertension and cardiovascular disease.

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PubMed References For CRP Polyclonal Antibody

1 Flow Cytometry References

Species / Dilution	Summary
	PA1-29087 was used in Flow Cytometry to show that the system used for CRP detection can be extended to also monitor other clinically relevant molecules.
Bovine / Not Cited	Micromachines (2021; 12:) "A Transit Time-Resolved Microflow Cytometry-Based Agglutination Immunoassay for On-Site C-Reactive Protein Detection." Author(s):Qu J,Zhang Y,Chenier M,Xu CQ,Chen L,Wan Y PubMed Article URL: http://dx.doi.org/10.3390/mi12020109

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