



Catalog Number:RYZ004AB9B-0001

## **Specification**

Product name	CRP Antibody	
Immunogen	Recombinant full-length protein.	
Source/Isotype	Mouse IgG1Kappa	
Reactivity	Human	
Purification	Protein G purified from hybridoma culture supernatant	
Application	ELISA, others unspecified	
Form	Liquid	
Storage Buffer	In 1×PBS, pH 7.2	
Storage Instruction	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Store at -20°C or lower long term. Aliquot to avoid repeated freezing and thawing.	
Concentration	3.2mg/mL	
Lot.	20231013	
Size	1000µg	

## **Supporting Data**

- 1. Double antibody sandwich method
  - 1.1 Reagents:
    - 1.1.1 Coating Buffer: Carbonate Buffer (2.93 g NaHCO<sub>3</sub>, 1.59 g Na<sub>2</sub>CO<sub>3</sub>, 1L ddH<sub>2</sub>O)
    - 1.1.2 Diluent: PBS (137 mM NaCl, 2.7 mM KCl, 8.1 mM Na<sub>2</sub>HPO<sub>4</sub>, 1.5mM KH<sub>2</sub>PO<sub>4</sub>)
    - 1.1.3 Blocking Solution: 1% BSA in PBS
    - 1.1.4 Secondary Ab: anti mouse IgG-HRP(Sigma A2554-1ML)
  - 1.2 Assay Protocol:

Note: The following protocol is a guideline, user need to determine their optimal experimental condition for best performance.

- 1.2.1 Coat plate with Recombinant protein 0.5ug/ml, 100ul/well, incubate at 4°C for overnight.
- 1.2.2 Wash the plate with PBST (0.05% Tween-20) once.
- 1.2.3 Add 200µL of blocking buffer each well, incubate the plate at 37°C for 2hr or 4°C overnight.
- 1.2.4 Add sample 100ul/well, incubate the plate at 37°C for 1hr.
- 1.2.5 Wash the plate with PBST (0.05% Tween-20) 3 times.
- 1.2.6 Add secondary Ab, 1:10k diluted anti-mouse IgG-HRP, 100ul/well, incubate the plate at 37°C for 0.5hr.
- 1.2.7 Wash the plate with PBST (0.05% Tween-20) 3 times.

Shenzhen Ruimeng Innovation biotechnology Co., Ltd.

F13, Building D3, Nanshan Zhiyuan (Phase II), 1001 Xueyuan Avenue, Nanshan District, Shenzhen

- Tel: (86)07552616-5996
- € Web: www.rm-bio.com

RC: 518055

- Fax: (86)07552616-5986
- 🖂 E-mail: rmi@rm-bio.com





- 1.2.8 Add 100ul/well TMB, incubate at room temperature for 10min, add 50ul/well 1N HCl or 2% H<sub>2</sub>SO<sub>4</sub>.
- 1.2.9 Read absorbance at 450nm.

## **Data Background**

Inflammation is a kind of defense reaction of the body to various pathogens and tissue damage, and it is a protective factor of the body. However, excessive inflammatory response will aggravate tissue damage and cause a series of clinical complications and adverse consequences. C-reactive protein (CRP) is synthesized by liver cells, produced during fetal life and not transmitted by the maternal placenta. The mechanism of its production is that when the body is infected or the tissue is damaged, macrophages and other white blood cells are activated to produce cytokines such as interleukin-6 (IL-6), interleukin-1 (IL-1), tumor necrosis factor TNF-a and other mediators, which reach the liver and stimulate the synthesis of CRP by liver cells and epithelial cells. Structurally, CRP contains 5 polypeptide chain subunits, non-covalently bound to a disk polymer with a molecular weight of 115,000-140,000, CRP is a typical acute phase protein.

### **Gene Information**

UniProt ID: P02741

Entrez-Gene Id: 1401

Protein Name: C-reactive protein

# **Related Product**

Product	Cat.	Description
CRP Antibody	RYZ004AB4B-0001	ELISA, others unspecified.
CRP Antibody	RYZ004AB6B-0001	ELISA, others unspecified.
CRP Antibody	RYZ004AB11B-0001	ELISA, others unspecified.
CRP Antibody	RYZ004AB9B-0001	ELISA, others unspecified.
CRP Antibody	RYZ004AB12B-0001	ELISA, others unspecified.

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€ Web: www.rm-bio.com

- 🗼 PRC: 518055
- ☐ Fax: (86)07552616-5986 ⊠ E-mail: rmi@rm-bio.com