**Mouse Anti-C Reactive Protein Monoclonal Antibody**

**Cat. No.** DMAB3073MH  
**Lot No.** (See product label)

### PRODUCT INFORMATION

**Product Overview:** Monoclonal Antibody to Human C Reactive Protein (CRP)  
**Antigen Description:** C-reactive protein (CRP) is a protein found in the blood, the levels of which rise in response to inflammation (i.e. C-reactive protein is an acute-phase protein). Its physiological role is to bind to phosphocholine expressed on the surface of dead or dying cells (and some types of bacteria) in order to activate the complement system via the C1Q complex.  
**Specificity:** Human CRP. Recognizes antigen both in the presence and in the absence (samples containing EDTA) of Ca2+.  
**Immunogen:** Purified Human CRP  
**Clone:** D6  
**Isotype:** IgG2a  
**Host animal:** Mouse. Hybridization of Sp2/0 myeloma cells with spleen cells from BALB/c mice  
**Source:** Ascites  
**Format:** Purified, Liquid  
**Applications:** CRP immunoassay and immunoaffinity purification. Each laboratory should determine an optimum working titer for use in its particular application. Other applications have not been tested but use in such assays should not necessarily be excluded.  
**Recommended pairs for sandwich immunoassay:**  
- Capture: DMAB3073MH  
- Detection: DMAB3076MH  
- DMAB3073MH  
- DMAB2022MH  
**Purification:** >90% pure (SDS-PAGE). Protein A Sepharose chromatography  
**Affinity Constant:** 1.7 x 10^-8

### SPECIFICATION SHEET

**Rev 110615MAB-K0004**

**Mouse, Monoclonal (C Reactive Protein)**

**Cat. No.** DMAB3073MH  
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### ANTIGEN GENE INFORMATION

**Gene Name:** CRP C-reactive protein, pentraxin-related [ Homo sapiens]  
**Official Symbol:** CRP  
**Synonyms:** C reactive protein; C-reactive protein; C reactive protein pentraxin related; C-reactive protein(1-205); CRP; CRP_HUMAN; MGC88244; PTX 1; PTX1; MGC149895; C-reactive protein, pentraxin-related; pentraxin 1; OTTHUMP00000033307; C Reactive Protein; C Reactive Protein;  
**GeneID:** 1401  
**mRNA Refseq:** NM_000567  
**Protein Refseq:** NP_000558  
**MIM:** 123260  
**UniProt ID:** P02741  
**Chromosome Location:** 1q21-q23  
**Pathway:** Classical antibody-mediated complement activation; Complement cascade; Creation of C4 and C2 activators; IL6-mediated signaling events; Immune System; Initial triggering of complement; Innate Immunity Signaling; Selenium Pathway  
**Function:** Gram-positive bacterial cell surface binding; binding; cholester binding; choline binding; low-density lipoprotein particle binding; metal ion binding; protein binding; protein homodimerization activity

### PACKAGING

**Concentration:** 6mg/ml (Sigma protein assay kit). Titer: ELISA is >10^-6  
**Buffer:** PBS, pH 7.4  
**Preservative:** 0.1% Sodium azide  
**Storage:** Store at 2-8°C.  
**Warning:** This product contains sodium azide, which has been classified as Xn (Harmful), in European Directive 67/548/EEC in the concentration range of 0.1–1.0%. When disposing of this reagent through lead or copper plumbing, flush with copious volumes of water to prevent azide build-up in drains.

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**REFERENCES**

**Catalog #DMAB3073MH**

Immunodetection of CRP in sandwich immunoassay DMAB2022MH is labeled with stable Eu³⁺ chelate. DMAB3073MH is biotinylated. Mixture of antibodies and antigen samples (10ul) was incubated for 30 minutes at room temperature in streptavidin coated plates.

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