

Product Specification Sheet

**C-Reactive Protein (CRP) Antibodies**

<input type="checkbox"/> Cat. # CRP14-M	Mouse Monoclonal Anti-Human CRP IgG # 4, aff pure	<b>SIZE:</b> 1mg
<input type="checkbox"/> Cat. # CRP12-C	Human purified CRP protein control for WB	<b>SIZE:</b> 100 ug

Pentraxins family of proteins acquired the name from their ability to form pentameric (or decameric) structures formed by non-covalent interactions. C-reactive protein (**CRP** or **PTX1**; mature chain 206 aa; chromosome 1q21-23) nonglycosylated, ~24 kda monomer and ~118 kda pentamer) is a ubiquitous protein found in both vertebrates and invertebrates. Originally CRP was defined as a substance, observed in the plasma of patients with acute infections, that reacted with the C polysaccharide of the pneumococcus. It is one of the plasma proteins that are called acute phase reactants because of a pronounced rise in concentration after tissue injury or inflammation; in the case of CRP the rise may be 1000-fold or more. CRP is composed of 5 identical, 21,500-molecular weight subunits. It is detectable on the surface of about 4% of normal peripheral blood lymphocytes. Acute phase reactant CRP is produced in the liver; those cells produce CRP detectable on lymphocytes.

**#CRP12-C**

Human CRP was purified from human serum/fluids (>95%) using biochemical and immunoaffinity techniques. Purity is tested by RID, SDS-PAGE, and IEP. For Western blot +ve control (**Cat # CRP12-C**) is supplied in SDS-PAGE sample buffer (reduced). Load 10 ul/lane of **CRP12-C** for good visibility with antibody **Cat # CRP14-M**. Store at -20oC in suitable size aliquots. SDS may crystallize in cold conditions. It should redissolve by warming before taking it from the stock. It should be heated once prior to loading on gels. If the product has been stored for several weeks, then it may be preferable to add 5 ul of fresh 2x sample buffer per 10 ul of the **CRP12-C** solution prior to heating and loading on gels. This preparation is not biologically active. It is not suitable for ELISA or other applications where native protein is required. Do not freeze, thaw, or heat repeatedly

**Source of Antigen and Antibodies**

**Cat # CRP14-M, unconjugated antibody**

<b>Antigen</b>	Human CRP was purified from human serum/fluids (>95%) using biochemical and immunoaffinity techniques. Purity is tested by RID, SDS-PAGE, and IEP
<b>Ab Host/type</b>	Balb/c <b>mouse</b> . Splenocytes were fused with Sp2/0 myeloma cells. Resulting clone (designated CRP14_M, isotype IgG1), selected for reactivity with CRP, was expanded into mice as <b>ascites</b> . Antibody has been purified by Protein A/G column chromatography.
<b>2-Ab</b>	Goat Anti-mouse IgG-HRP conjugate Cat # 40320 (AP, biotin, FITC conjugates also available)
<b>-ve control IgG</b>	Cat # 20008-1, Mouse (non-immune) Serum IgG, purified, suitable for ELISA, Western, IHC as -ve control

*\*All product are for In vitro research use only.*

**Related material available from ADI**

Rat and Dog CRP antibodies and reference controls, Human and Rat CRP ELISA Kits; polyclonal antibodies coupled to HRP and FITC

**Suggested Dilutions:** 1:500-1:5K for Western; 1:5K-1:20K for ELISA. Further optimization may be needed under actual experimental conditions.

**Shipping:** 4oC for solutions and room temp for powder.

CRP14-M-C

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