ALPHA DIAGNOSTIC INTERNATIONAL

Product Specification Sheet

Monoclonal Anti-C-Reactive Protein (CRP) Antibodies and Conjugate

□ Cat. # CRP13-M	Mouse Monoclonal Anti-Human CRP IgG # 1, aff pure	**SIZE**: 1 mg
□ Cat. # CRP13-GLD	Mouse Monoclonal Anti-Human CRP IgG-Gold Conjugate	**SIZE**: 1 ml
□ Cat. # CRP13-FITC	Mouse Monoclonal Anti-Human CRP IgG-FITC Conjugate	**SIZE**: 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.

Source of Antigen and Antibodies

Antigen	Human purified CRP protein
Ab Host/type	Mouse, Monoclonal , IgG1, Aff pure IgG (**cat # CRP13-M**) in PBS, pH 7.5 containing 0.05% azide,
2-ab	Goat Anti-mouse IgG-HRP conjugate Cat # 40320 (AP, biotin, FITC conjugates also available)
-ve control IgG	Cat # 20008-1, Mouse (non-immune) Serum IgG, purified, suitable for ELISA, Western, IHC as –ve control

Cat # CRP13-M, unconjugated antibody

Antibodies were affinity purified and supplied as 1 mg/ml solution in PBS, pH 7.4 containing 0.05% sodium azide. Lyophilized antibodies should be reconstituted in 100 ul water and stored frozen in suitable aliquots.

Suggested Dilutions: 1:500-1:5,000 for Western; 1:5K-1:20,000 for ELISA. Further optimization may be needed under actual experimental conditions.

Species Specificity

Antibody # CRP13-M is specific for human CRP No reactivity is observed with SAP or other pentraxins. There is minimal crossreactivity with rat and mouse CRP. Other species are not tested. We recommend using anti-rat CRP (cat # CRP16-A) for detecting rat CRP.

Cat # CRP13-FITC (anti-CRP-FITC Conjugate)

Affinity purified **anti-human CRP IgG (cat # CRP13-M) was coupled to FITC** (**cat # CRP13-FITC**). F/P ratio is 3 to 7. It is supplied at 1 mg/ml in PBS, pH 7.4, 0.2% BSA and 0.05% azide. Store at 4oC in the dark. Do not expose to bright light for a prolonged periods of time. Do freeze and thaw.

Suggested Dilutions: 1:200-1:1000 for immunoflurescence. Prepare working antibody dilution immediately before use. Further optimization may be needed under actual experimental conditions.

Cat # CRP13-GLD (anti-CRP-Gold Conjugate)

Affinity purified anti-human CRP IgG (cat # CRP13-M) was coupled to gold particles (~40 nm particles; 10 ug/ml; ~OD540=10) (cat # CRP13-GLD). It is supplied in PBS, pH 7.4, 0.2% BSA and 0.05% azide. Store at 4oC in the dark. Do Not freeze.

Suggested Dilutions: Optimization may be needed under actual experimental conditions.

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

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

Related material available from ADI

Catalog#	ProdDescription
1000	Human C-Reactive Protein (CRP) ELISA Kit, 96 tests, Quantitative
CRP11-A	Anti-human C-Reactive Protein (CRP) IgG, aff pure
CRP11-FITC	Anti-human C-Reactive Protein (CRP)-FITC Conjugate,
CRP11-HRP	Anti-human C-Reactive Protein (CRP)-HRP Conjugate,
CRP12-M	Monoclonal Anti-human C-Reactive Protein (CRP) IgG # 2, aff pure
CRP13-FITC	Mouse mono Anti-human CRP (C-Reactive Protein) (clone 1) IgG-FITC conjugate
CRP13-GLD	Mouse Anti-human CRP (C-Reactive Protein) (clone 1) IgG-Gold conjuagte
CRP13-M	Mouse Anti-human CRP (C-Reactive Protein) (clone 1)
CRP14-GLD	Mouse Anti-human CRP (C-Reactive Protein) (clone 2) IgG-Gold conjuagte
CRP14-M	Mouse Anti-human CRP (C-Reactive Protein) (clone 2)
CRP15-N-100	Human C-Reactive Protein (CRP) protein, purified
CRP16-N-10	Rat C-Reactive Protein (CRP) protein, purified
CRP25-A	Anti-human C-Reactive Protein (CRP) IgG #2 (for capture)
CRP26-A	Anti-Mouse C-Reactive Protein (CRP) IgG, aff pure
CRP26-BTN	Anti-Mouse C-Reactive Protein (CRP) IgG-biotin

CRP13-M 141022A

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