ALPHA DIAGNOSTIC INTERNATIONAL

Product Specification Sheet

Mouse C-Reactive Protein (CRP) Antibodies and conjugates

Cat. # CRP24-A	Goat Anti-Mouse CRP IgG # 1, aff pure	**SIZE**: 100 ug
Cat. # CRP24-BTN	Goat Anti-Mouse CRP IgG-biotin conjugate	**SIZE**: 50 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

Mouse CRP was purified from Mouse serum (>95%) using biochemical and immunoaffinity techniques. Purity is tested by RID, SDS-PAGE, and IEP.

Cat # CRP24-A, unconjugated antibody

Purified Mouse CRP was used as antigen to produce **polyclonal antibodies** in **Goats** (Cat # **CRP24-A**). Antibodies were affinity purified and supplied as 1 mg/ml solution in PBS, pH 7.4, (no BSA) or with BSA (0.1% BSA) and 0.05% sodium azide. Lyophilized antibodies should be reconstituted in 100 ul water to prepare 1 mg/ml solution and stored frozen in suitable aliquots.

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

Cat# CRP24-BTN, Biotin-conjugate

Purified anti-Mouse CRP antibody was coupled to Biotin using Biotinamidocaproate N-Hydroxysuccinimide Ester (BAC**)** at F/P ratio ~10-20:1. The antibody is supplied in PBS, pH 7.4, 0.2% BSA and 0.05% azide in either **lyophilized** (50 ug) or **liquid** form (50 ug/50 ul). Reconstitute powder in PBS in 0.1 ml to prepare 0.5 mg/ml solution. Store at -20oC in suitable aliquots. Stability is ~6-12 months. Do not freeze and thaw.

Suggested conjugate dilutions are 1:5,000-1:30,000 ELISA, 1:2K-1:10K for western.

Species Specificity

Antibody # CRP24-A is specific for mouse CRP No reactivity is observed with SAP or other pentraxins. There is minimal crossreactivity with rat and human CRP. Other species are not tested. We recommend using anti-human CRP (cat # CRP11-A) for detecting human CRP, and cat # CRP176-A for rat CRP.

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

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

Related material available from ADI

Mouse, Rat Dog, Human, Monkey CRP ELISA kits

Anti-Dog CRP antibodies, -HRP conjugates, and protein

CRP24-A-BTN 71217A

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