

Product Specification Sheet

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

□ Cat. # CRP25-A

Goat Anti-Human CRP IgG # 2

SIZE: 1 mg

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**

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

**Cat # CRP25-A, unconjugated antibody**

Purified CRP was used as immunogen to produce **polyclonal antibodies** in **goats** (Cat # **CRP25-A**). Antibodies were purified and supplied as 1 mg/ml solution in PBS, pH 7.4 containing 0.05% sodium azide (see lot sp. concn on the vial). Lyophilized antibodies should be reconstituted in water 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.

**Species Specificity**

Antibody # CRP25-A is specific for human CRP. No reactivity is observed with SAP or other pentraxins. Antibodies to CRP tend to be specific for CRP of a given species. We also antibodies to mouse, rat, human, dog, monkey CRP antibodies.

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

*\*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

CRP125-A

100205A