

Product Specification Sheet

Mouse C-Reactive Protein (CRP) Antibodies

Cat. # CRP21-A	Rabbit Anti-Mouse CRP peptide IgG, aff pure	SIZE: 100 ug
Cat. # CRP21-P	Mouse CRP control/blocking peptides	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	A mixture of peptides (from mouse CRP (1 peptide near the N-terminus and 1 peptide from C-terminus) were coupled to KLH. The two free peptides can be used for ELISA or antibody blocking (Cat # CRP21-P).
Ab Host/type	Rabbit, polyclonal IgG Aff pure IgG (cat # CRP21-A) purified over the mixture of two antigenic peptides linked to Agarose
2-ab	Goat Anti-rabbit IgG-HRP cat # 20320 (AP, biotin, FITC conjugates also available)
-ve control IgG	# 20009-1, Rabbit (non-immune) IgG, purified, suitable for ELISA, Western, IHC as -ve control

Form & Storage of Antibodies/Peptide Control

Affinity pure IgG

100 ug/100ul solution lyophilized powder
Supplied in **Buffer:** PBS+0.1% BSA
Reconstitute powder in PBS at 1mg/ml

Control/blocking peptide

100 ug/100 ul solution lyophilized powder
Supplied in Buffer: PBS pH 7.5,
Reconstitute powder in PBS at 1 mg/ml.

Storage

Short-term: unopened, undiluted liquid vials at -20OC and powder at 4oC or -20oC..

Long-term: at -20C or below in suitable aliquots after reconstitution. Do not freeze and thaw and store working, diluted solutions.

Stability: 6-12 months at -20oC or below.

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

Suggested Dilutions: 1-10 ug/ml of aff pure IgG for Western; 0.1-1 ug/ml for ELISA. Further optimization may be needed under actual experimental conditions.

Species Specificity

The N-terminal mouse CRP peptide is conserved 80% in rabbit, 80% in human, and 71% in chicken CRP. The C-terminal mouse CRP peptide is 78% conserved in g. pig, and 73% in human CRP proteins. However, antibody reactivity in various species is not established. Control peptide, because of its low mol. Wt (<3 kDa), is not suitable for Western. It should be used for ELISA or antibody blocking experiments (use 5-10 ug control peptide per 1 ug of aff pure IgG or 1 ul antiserum) to confirm antibody specificity (see detailed protocol at the web site).

We recommend using anti-human CRP (cat # CRP11-A) for detecting human CRP, and cat # CRP16-A for rat CRP.

Store at -20oC in suitable size aliquots.

Stability: 6-12 months at -20oC.

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

Refs: (1) Ohnishi S et al (1988) BBRC 156, 814-822; Whitehead AS et al (1990) Biochem. J. 266, 283-290

**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

CRP21-A-P 71217A

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