



## C-Reactive Protein (CRP, PTX 1, PTX1)

### Catalog number

C7907-04Q

### Supplier

United States Biological

C-reactive protein (CRP) is a calcium-binding acute phase reactant belonging to the pentraxin family which is secreted into the plasma by the liver, in response to cytokine stimulation. In addition to binding to phosphocholine residues, CRP can bind to other autologous and extrinsic ligands on targets, including damaged cell membranes, ribonucleoprotein particles, apoptotic cells and constituents of micro-organisms, and may activate the classical complement pathway through C1q recognition, making CRP a factor in a variety of host defense mechanisms. Levels of plasma CRP are significantly increased during the acute phase response, tissue injury and infection and can be used diagnostically as a marker of inflammation, disease progress and risk assessment of cardiovascular disease (CVD).

### Applications

Suitable for use in CRP Immunoassay, Immunoaffinity purification and Western Blot. Other applications not tested.

### Recommended Dilutions

Optimal dilutions to be determined by the researcher.

### Hybridoma

Sp2/0 myeloma cells with spleen cells from Balb/c mice.

### Matched Pairs

Capture: C7907-09

Detection: C7907-04Q

### Storage and Stability

May be stored at 4°C for short-term only. For long-term storage and to avoid repeated freezing and thawing, aliquot and store at -20°C. Aliquots are stable for at least 12 months at -20°C. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap. Further dilutions can be made in assay buffer.

### Immunogen

Human CRP, derived with pleural/ascetic fluid or plasma.

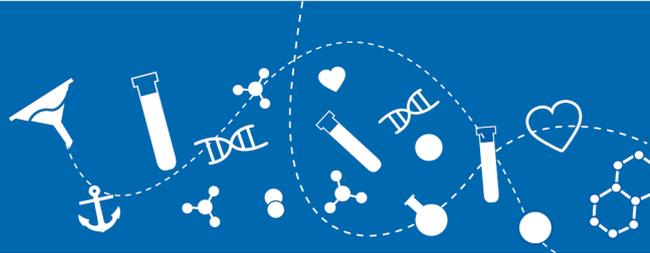
### Formulation

Supplied as a liquid in PBS, pH 7.4, 0.09% sodium azide.

### Purity

Purified by Protein A Sepharose chromatography. Purity is tested by electrophoresis. >90% pure.

### Specificity



Recognizes the human CRP antigen both in the presence and in the absence (samples containing EDTA) of Ca<sup>2+</sup>.

**Product Type**

Mab

**Source**

human

**Isotype**

IgG2b

**Grade**

Affinity Purified

**Applications**

E WB

**Crossreactivity**

Hu

**Storage**

-20°C