



20180823DS

Anti-Human CRP

**FOR RESEARCH ONLY! NOT FOR HUMAN USE!**

Cat.-no.:	102-P104
Size:	100 µg
Lot. No.:	According to product label

Preparation: Anti-Human CRP-specific antibody was purified by affinity chromatography employing an immobilized Human CRP matrix.

Target Background

Synonyms (Target):	CRP; PTX1
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C-Reactive Protein (CRP) is a member of the Pentraxin family of proteins that are characterized by a cyclic, non-covalent, pentameric structure. IL-6, IL-1 beta, and glucocorticoids induce hepatic C-Reactive Protein synthesis and release. In humans, C-Reactive Protein is a major acute phase protein, increasing by 1,000-fold within 24 to 48 hours of infection, inflammation or tissue damage. C-Reactive Protein exhibits calcium-dependent binding of its principle ligand, phosphocholine, a constituent of bacterial and fungal cell walls. Upon ligand binding, C-Reactive Protein initiates the activation of the complement cascade and binds Fc gamma RI (CD64) and Fc gamma RIIA (CD32a) on phagocytes to activate phagocytic responses. In mouse, C-Reactive Protein is expressed at very low levels and is not an acute phase reactant.

Database References Target

Protein RefSeq:	NP_000558.2
Uniprot ID:	P02741
mRNA RefSeq:	NM_000567.2

Product Specifications

Host	Rabbit
Reactivity against	Human
Clonality	Polyclonal Antibody
Isotype	Rabbit IgG
Purification	Antigen-affinity purified
Antigen	E.coli-derived, 23.2 kDa Recombinant Human CRP
Formulation	lyophilized from PBS
Reconstitution buffer	water

Remarks:

**AVOID REPEATED FREEZE AND THAW CYCLES!**

Applications

Sandwich ELISA: To detect Human CRP by sandwich ELISA (using 100µl/well) a concentration of 0.5-2.0 µg/ml of this antibody is required. This antigen affinity purified antibody, in conjunction with a Biotinylated Anti-Human CRP as a detection antibody, allows the detection of at least 2000-4000 pg/ml of Recombinant Human CRP.

Western Blot: To detect Human CRP by Western Blot analysis this antibody can be used at a concentration of 0.1-0.2 µg/ml. When used in conjunction with compatible secondary reagents the detection limit for Recombinant Human CRP is 1.5-3.0 ng/lane, under either reducing or non-reducing conditions.

NOTE: OPTIMAL DILUTIONS SHOULD BE DETERMINED BY EACH LABORATORY FOR EACH APPLICATION!