



20150116ML

# Anti-Human CRP (#4H19)

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

<b>Cat.-no.:</b>	<b>101-M342</b>
Size:	100 µg
Lot. No.:	According to product label

**Preparation:** This antibody was produced from a hybridoma (mouse myeloma fused with spleen cells from a mouse) immunized with human recombinant CRP.

## Target Background

<b>Synonyms (Target):</b>	CRP; PTX1, C-reactive protein
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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

<b>Protein RefSeq:</b>	NP_000558.2
<b>Uniprot ID:</b>	P02741
<b>mRNA RefSeq:</b>	NM_000567.2

## Product Specifications

<b>Host</b>	Mouse
<b>Reactivity against</b>	Human
<b>Clonality</b>	Monoclonal Antibody
<b>Clone</b>	(#4H19)
<b>Isotype</b>	IgG2
<b>Purification</b>	Protein G chromatography
<b>Antigen</b>	human recombinant CRP
<b>Formulation</b>	lyophilized
<b>Reconstitution buffer</b>	PBS (sterile)

**Reconstitution:** Reconstitute the antibody with 200 µl sterile PBS and the final concentration is 500 µg/ml.

**Stability:** Lyophilized samples are stable for 2 years from date of receipt when stored at -70°C. Reconstituted antibody can be aliquoted and stored frozen at < -20 °C for at least for six months without detectable loss of activity.

**Remarks:** This antibody was selected for its ability to detect human CRP.

**AVOID REPEATED FREEZE AND THAW CYCLES!**

## Applications

The antibody can be used within the following applications:

WB

**Recommended usage:**

**WB:** 1:500-1000

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