



Monoclonal Antibody against Human CRP (7E12)

Catalog Number: 21121**Size: 100 µg****Host: Mouse**

Introduction to the Molecule

C-reactive protein (CRP) is a circulating protein mainly secreted from the liver. This acute phase protein consists of five identical non-glycosylated subunits of 23 kDa, that give rise to a symmetrically arranged globular protein with molecular weight of approximately 120 kDa¹. It has long been recognized that CRP is closely related to immunology, inflammation and host defence, as a result it has been used as an inflammatory marker. There is accumulating evidence suggesting the important role that CRP plays in mediating cardiovascular diseases (CVD) and type 2 diabetes²⁻⁴. Normally, CRP is present only in a trace amount in circulation (<1 µg/mL)^{5,6} but can increase over 1,000-fold under acute inflammatory state. Individual with blood CRP levels <1 µg/mL, 1-3 µg/mL and >3 µg/mL is considered to have low, moderate and high risk, respectively, of CVD and myocardial infarction⁷. Therefore, blood CRP level has become a promising measure of CVD risk^{8,9}.

Purification

Protein G affinity purification

Immunogen

Recombinant full-length human CRP in *E.coli*.

Specificity

The antibody detects human CRP.

Formulation & Storage

Liquid in phosphate-buffered saline (PBS). Store at -20°C for less than one week. For long-term storage, aliquot and freeze at -70°C. Avoid repeated freeze/thaw cycles.

Application/Usage

This antibody can be used as a capture antibody in a human CRP ELISA in combination with monoclonal anti-human CRP antibody (Cat. No.: 21120) as detection antibody.

References

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