

## Monoclonal Antibody against Human CRP (8G1)

Catalog Number: 21120

Size: 100 ug

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 kDa.<sup>1</sup> It has long been recognized that CRP is closely related to immunology, inflammation and host defense; as a result it has been used as an inflammatory marker. However, the development of high-sensitivity CRP (hsCRP) ELISA had addressed its role in other clinical issues. There is accumulating evidence suggesting the important role that CRP plays in mediating cardiovascular diseases (CVD) and type 2 diabetes.<sup>2-4</sup> Normally CRP is presenting only in a trace amount in circulation (<1 µg/ml)<sup>5-6</sup> 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 infraction.<sup>7</sup> Therefore, blood CRP level has become a promising measure of CVD risk.<sup>8-9</sup>

### Isotype/Preparation:

Mouse IgG; Affinity chromatography on a column with immobilized protein G.

### Immunogen:

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

### Specificity:

The antibody detects human CRP.

### Formulation:

Supplied in PBS. Store at -20°C. 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.: 21121)

### Reference:

1. Thompson D., Pepys M.B. and Wood S.P. (1999) *Structure*, 7, 169-177.
2. Festa A, D'Agostino R. Jr., Tracy R.P. and Haffner S.M. (2002) *Diabetes*, 51, 1131-1137.
3. Verma S. and Yeh E.T. (2003) *Am J Physiol*, 285, R1253-R1258.
4. Jialal I., Devaraj S. and Venugopal S.K. (2004) *Hypertension*, 44, 6-11.
5. Kindmark C.O. (1972) *Scand J Clin Lab Invest*, 29, 407-411.

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