

C-reactive/CRP Monoclonal Antibody

CATALOG NO:	A1208-100
ALTERNATIVE NAMES:	CRP, PTX1, C-reactive protein
AMOUNT:	100 µg
IMMUNOGEN:	Human CRP Protein
HOST/ISOTYPE:	Mouse IgG
SPECIES REACTIVITY:	Human
PURIFICATION:	>95%, Protein G purified
FORM:	Liquid
FORMULATION:	In NaCl with 15 mM NaN ₃ (pH 7.4)
STORAGE CONDITIONS:	For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

DESCRIPTION: C-reactive protein (CRP) is an annular (ring-shaped), pentameric protein found in blood plasma, the levels of which rise in response to inflammation (i.e., C-reactive protein is an acute-phase protein of hepatic origin that increases following interleukin-6 secretion from macrophages and T cells). Its physiological role is to bind to lysophosphatidylcholine expressed on the surface of dead or dying cells (and some types of bacteria) in order to activate the complement system via the C1q complex. CRP is synthesized by the liver in response to factors released by macrophages and fat cells (adipocytes). It is a member of the pentraxin family of proteins. It is not related to C-peptide (insulin) or protein C (blood coagulation). C-reactive protein was the first pattern recognition receptor (PRR) to be identified.

APPLICATION: ELISA, LEITA, LFIA

Note: This information is only intended as a guide. The optimal dilutions must be determined by the user.

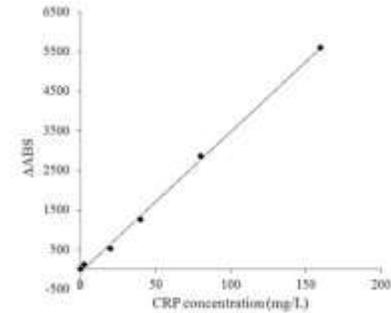


Fig1. Calibration curve for CRP in latex-enhanced turbidimetric immunoassay (LETIA): CRP proteins react with anti-CRP antibody precoated onto latex beads to form insoluble complex, resulting in turbidity increasing with was then detected by automatic biochemical analyzer.

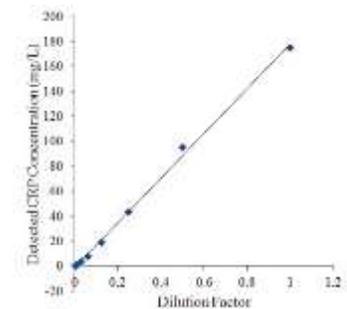


Fig2. Determination of the CRP concentration by serial dilution of clinical serum: The high value CRP serum was 2-fold serially diluted with physiological saline and measured on LETIA platform showed decline in CRP concentrations along with serial dilution of blood samples

RELATED PRODUCTS:

- Human CellExp™ C-reactive/CRP, human recombinant (**Cat. No. 7242-100**)
- CRP, human recombinant (**Cat. No. 4864-250, -1000**)

FOR RESEARCH USE ONLY! Not to be used on humans.