10320 Camino Santa Fe, Suite G
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CRP Antibody
Purified Mouse Monoclonal Antibody
Catalog # AO1685a

Specification

CRP Antibody - Product Information

Application	**E, WB, FC, IHC**
Primary Accession	P02741
Reactivity	**Human**
Host	**Mouse**
Clonality	**Monoclonal**
Isotype	**IgG1**
Calculated MW	**25kDa KDa**

Description
The protein encoded by this gene belongs to the pentaxin family. It is involved in several host defense related functions based on its ability to recognize foreign pathogens and damaged cells of the host and to initiate their elimination by interacting with humoral and cellular effector systems in the blood. Consequently, the level of this protein in plasma increases greatly during acute phase response to tissue injury, infection, or other inflammatory stimuli.

Immunogen
Purified recombinant fragment of human CRP expressed in E. Coli.

Formulation
Ascitic fluid containing 0.03% sodium azide.

CRP Antibody - Additional Information

Gene ID 1401

Other Names
C-reactive protein, C-reactive protein(1-205), CRP, PTX1

Dilution
E~~1/10000
WB~~1/500 - 1/2000
FC~~1/200 - 1/400
IHC~~1/200 - 1/1000

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
CRP Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

CRP Antibody - Protein Information

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Name CRP

Synonyms PTX1

Function
Displays several functions associated with host defense: it promotes agglutination, bacterial capsular swelling, phagocytosis and complement fixation through its calcium-dependent binding to phosphorylcholine. Can interact with DNA and histones and may scavenge nuclear material released from damaged circulating cells.

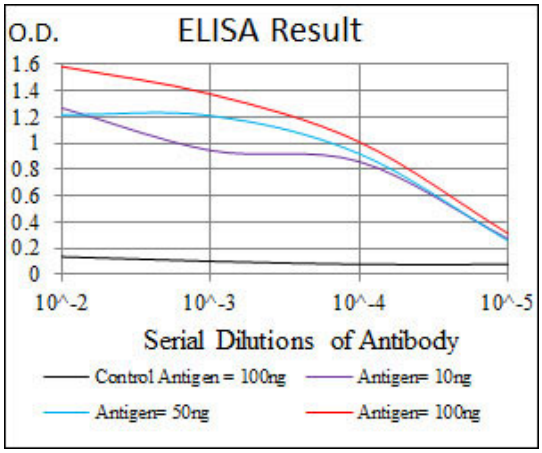
Cellular Location
Secreted.

Tissue Location
Found in plasma.

CRP Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture



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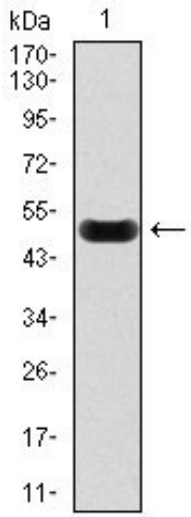


Figure 1: Western blot analysis using CRP mAb against human CRP recombinant protein. (AA: 1-224, Expected MW is 51 kDa)

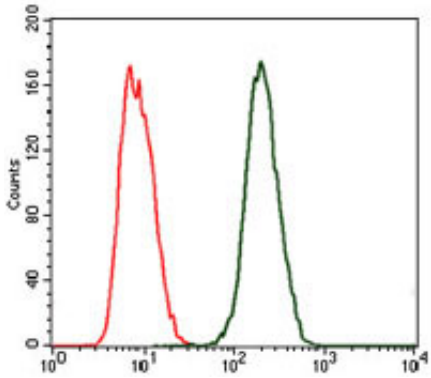


Figure 2: Flow cytometric analysis of MCF-7 cells using CRP mouse mAb (green) and negative control (red).

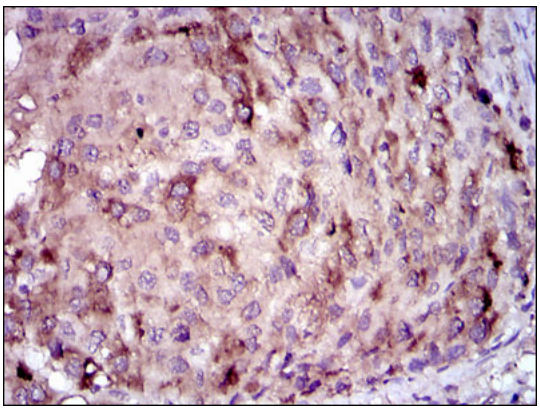


Figure 3: Immunohistochemical analysis of paraffin-embedded liver cancer tissues using CRP mouse mAb with DAB staining.

CRP Antibody - References

1. Clin Cardiol. 2010 Nov;33(11):708-14. 2. Mol Cell Biochem. 2011 Jan;347(1-2):183-9.