

Product datasheet for **AM09268PU-N**

C Reactive Protein (CRP) Mouse Monoclonal Antibody [Clone ID: S5G1]

Product data:

Product Type:	Primary Antibodies
Clone Name:	S5G1
Applications:	ELISA, FC, IF, WB
Recommended Dilution:	ELISA: This antibody reacts with Human CRP. Immunoblotting (Western): 1/1000. Immunofluorescence: 10 mg/ml. Fluorescence flow cytometry: 10 mg/ml.
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Purified CRP from human pleural fluid.
Specificity:	Reactive with Human CRP. No detectable cross-reaction with Human normal serum proteins. Other species not tested.
Formulation:	0.01M PBS, pH 7.2 without preservatives. State: Aff - Purified State: Lyophilized purified IgG fraction.
Reconstitution Method:	Restore with Double distilled water to adjust the final concentration to 1.0 mg/ml.
Purification:	Affinity Chromatography on Protein G.
Conjugation:	Unconjugated
Storage:	Store lyophilized at 2-8°C for 6 months or at -20°C long term. After reconstitution store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C long term. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	C-reactive protein, pentraxin-related



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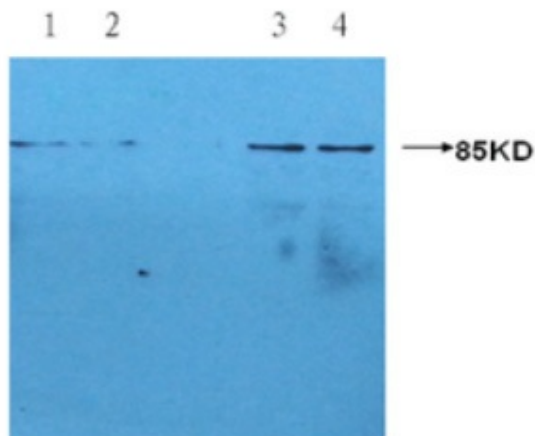
Database Link: [Entrez Gene 1401 Human P02741](#)

Background: C Reactive Protein is a major acute phase reactant synthesized primarily in the liver hepatocytes. It is a pentraxin (cyclic pentameric protein) compound of five identical nonglycosylated subunits of 206 amino acids each (m.w. 24 kDa), that are bound noncovalently to form the physiologic CRP molecule (m.w. 117.5 kDa). C Reactive Protein mediates activities associated with preimmune nonspecific host resistance. It is opsonic, an initiator of the classical complement cascade and an activator of monocytes/macrophages. CRP also binds to several nuclear components including chromatin, histones and snRNP, suggesting that it may play a role as a scavenger during cell necrosis. Studies have revealed that among other markers of inflammation, CRP shows the strongest association with cardiovascular events. Many clinical studies demonstrated that coronary mortality among patients with unstable angina and elevated CRP is significantly higher comparing with the patients without elevated CRP. Measurements of C reactive protein (hsCRP) in the patients with ischemic heart disease provide a novel method for detecting individuals at high risk of plaque rupture.

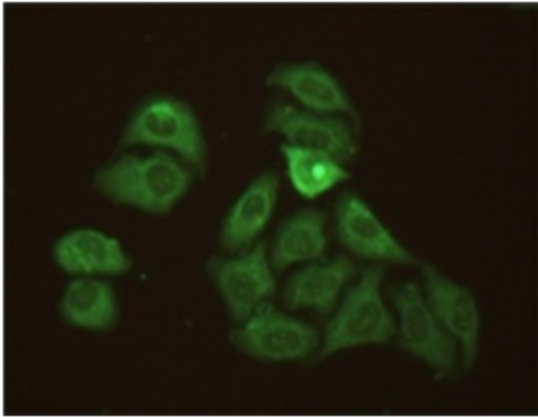
Synonyms: PTX1, C Reactive Protein, Pentraxin-related

Protein Families: Secreted Protein

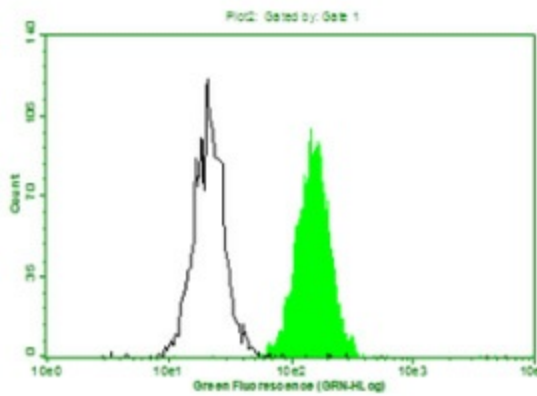
Product images:



Western blotting using Mouse anti-human CRP monoclonal antibody (S5G1) at 1:1000 dilution. Lane 1 & 2: HepG2 cell lysate. Lane 3 & 4: HeLa cell lysate.



Methanol-fixed HeLa cells stained with 10mg/mL anti-Human CRP mAb S5G1 and fluorescence labelled secondary antibody.



Above is the histogram of HeLa cells stained with 10mg/mL anti-Human CRP mAb S5G1 and fluorescence labelled secondary antibody. Black line represents the histogram of HeLa cells stained with isotype control, mouse anti-TB 38Kd antigen monoclonal antibody (Clone B12F8).