

Mouse anti-Human CRP Antibody | anti-CRP antibody

Anti-CRP [P03], Mouse IgG1

CATALOG # AAA72292	HOST Mouse	REACTIVITY Human	APPLICATIONS Western Blot, ELISA
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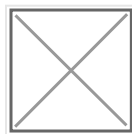
PRODUCT SYNONYMS

CRP; Anti-CRP [P03]; Mouse IgG1; C reactive protein; PTX1; C-reactive protein; anti-CRP antibody

PRODUCT SPECIFICATIONS

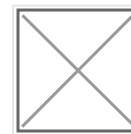
Host	Mouse
Reactivity	Human
Isotype	Mouse IgG1, Kappa
Clone Number	P03
Specificity	This antibody reacts with human C reactive protein, which is a pentameric protein found in blood plasma. It is an acute phase reactive protein of hepatic origin. It is an important defense molecule for the body and its plasma concentration increases sharply during tissue damage, inflammation and bacterial infection. It promotes agglutination, bacterial capsular swelling, phagocytosis and complement fixation through its calcium-dependent binding to phosphorylcholine. It can interact with DNA and histones and may scavenge nuclear material released from damaged circulating cells.
Purity/Purification	Protein A affinity purified
Form/Format	PBS with 0.02% Proclin 300.
Concentration	1mg/ml (varies by lot)
Applicable Applications for anti-CRP antibody	WB (Western Blot), ELISA
Immunogen	The original antibody was generated by immunizing BALB/c mice with C-reactive protein extracted from human plasma.
Preparation and Storage	Store at 4 degree C for up to 3 months. For longer storage, aliquot and store at -20 degree C.

IMAGES



IF (Immunofluorescence)

Immunofluorescence staining of HepG2 cells with anti-CRP (AAA72292) P03
Immunofluorescence analysis of paraformaldehyde fixed HepG2 cells stained with the chimeric rabbit IgG version of P03 (AAA72292-23.0) (1:1000 dilution) for 1h followed by Alexa Fluor 488 secondary antibody (1:1500 dilution), showing nuclear staining. The nuclear stain is DAPI (blue). Panels show from left-right, top-bottom AAA72292-23.0, DAPI, merged channels and an isotype control. The isotype control was anti-fluorescein antibody followed by staining with Alexa Fluor 488 secondary antibody.



WB (Western Blot)

Western Blot using anti-CRP antibody P03 (AAA72292). Human liver(A) (0.0003ug/ml), kidney(B) (0.0003ug/ml), staining in human plasma(C) (0.001ug/ml) and staining in human serum(D) (0.01ug/ml) tissue lysate (35ug protein in RIPA buffer) were resolved on a SDS PAGE gel and blots were probed with the chimeric rabbit version of P03 (AAA72292-23.0) before detection using an anti-rabbit secondary antibody. A primary incubation of 1h was used and protein was detected by chemiluminescence.

ADDITIONAL INFORMATION

Related Product Information for anti-CRP antibody	Indirect ELISA was used for the primary screening of the hybridomas showing selective binding for human CRP. Spicy Root peroxidase labeled scFv P03 was used for the identification of natural CRP extracted from denatured and non-denatured blood in a western blot assay. This antibody in combination with P24 was also used in the double antibody sandwich detection of natural human CRP. The combination of P03 and P24 antibody was also used for the generation of time-resolved fluorescence immunoassay card for detection of C-reactive protein (CN105842440).
Product Categories/Family for anti-CRP antibody	inflammation ; bacterial infection

NCBI AND UNIPROT INFORMATION

NCBI GI #	55770842
NCBI GeneID	1401
NCBI Accession #	NP_000558.2
NCBI GenBank Nucleotide #	NM_000567.2
UniProt Accession #	P02741 ; Q08AK3 ; Q8WW75 ; A8K078 ; D3DVD9 ; D3DVE0
Molecular Weight	25,039 Da
NCBI Official Full Name	C-reactive protein
NCBI Official Synonym Full Names	C-reactive protein, pentraxin-related
NCBI Official Symbol	CRP
NCBI Official Synonym Symbols	PTX1
NCBI Protein Information	C-reactive protein; pentraxin 1
UniProt Protein Name	C-reactive protein
UniProt Gene Name	CRP
UniProt Synonym Gene Names	PTX1
UniProt Entry Name	CRP_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/mouse-human-antibody/crp/72292>