C ReProtein (CRP) Active Protein | CRP active protein

Active C Reactive Protein (CRP)

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA149242	**Human (Plasma)**	**Homo sapiens (Human)**	**Western Blot, SDS-Page**

PRODUCT SYNONYMS

C ReProtein (CRP); Active C Reactive Protein (CRP); C-RP; PTX1; Pentraxin-Related; Pentraxin 1; CRP active protein

PRODUCT SPECIFICATIONS

Host	Human (Plasma)
Reactivity	Homo sapiens (Human)
Purity/Purification	Purity: >98% as determined by SDS-PAGE. Purification Methods: Salt co-precipitation and ionic-Exchange chromatography.
Form/Format	20mM Tris, 280mM NaCl, 5mM CaCl2, 0.09% NaN3, pH8.0. containing 5% Trehalose.
Concentration	1mg/mL (varies by lot)
Applicable Applications for CRP active protein	WB (Western Blot), SDS-PAGE, Immunogen, Positive Control
Source	Natural Extract
Endotoxin Level	<1.0EU per 1ug (determined by the LAL method).
Traits	Freeze-dried powder
Predicted isoelectric point	5.5
Usage	Reconstitute in 20mM Tris, 280mM NaCl, 5mMCaCl2, 0.09%NaN3 (pH8.0) to a concentration of 0.1-1.0 mg/mL. Do not vortex.
Preparation and Storage	**Storage:** Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Aliquot and store at -80°C for 12 months. **Stability Test:** The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.

IMAGES

Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for CRP active protein	The binding activity of CRP with RPL23A.C Reactive Protein (CRP) is an annular (ring-shaped), pentameric protein, a member of the pentraxin family of proteins. It is an acute-phase protein of hepatic origin that increases following interleukin-6 secretion by 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 C1q. CRP is synthesized by the liver in response to factors released by macrophages and fat cells (adipocytes). Besides, Ribosomal Protein L23A (RPL23A) has been identified as an interactor of CRP, thus a binding ELISA assay was conducted to detect the interaction of recombinant human CRP and recombinant human RPL23A. Briefly, CRP were diluted serially in PBS, with 0.01% BSA (pH 7.4). Duplicate samples of 100muL were then transferred to RPL23A-coated microtiter wells and incubated for 2h at 37 degree C. Wells were washed with PBST and incubated for 1h with anti-CRP pAb, then aspirated and washed 3 times. After incubation with HRP labelled secondary antibody, wells were aspirated and washed 3 times. With the addition of substrate solution, wells were incubated 15-25 minutes at 37 degree C. Finally, add 50uL stop solution to the wells and read at 450nm immediately. The binding activity of CRP and RPL23A was shown in Figure 1, and this effect was in a dose dependent manner.
Product Categories/Family for CRP active protein	Tumor immunity; Infection immunity; Cardiovascular biology; Rheumatology

NCBI AND UNIPROT INFORMATION

NCBI GI #	55770842
NCBI GeneID	1401
NCBI Accession #	NP_000558.2
NCBI GenBank Nucleotide #	NM_000567.3
UniProt Accession #	P02741
Molecular Weight	Accurate Molecular Mass: 25.0kDa Observe Molecular Mass: 25kDa
NCBI Official Full Name	C-reactive protein isoform 1
NCBI Official Synonym Full Names	C-reactive protein
NCBI Official Symbol	CRP
NCBI Official Synonym Symbols	PTX1
NCBI Protein Information	C-reactive protein
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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: https://stage.aaabiotech.com/human-homo-sapiens-human-active-protein/c-reprotein-crp/149242