

Human C Reactive Protein (CRP) ELISA Kit | CRP elisa kit

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CATALOG #
AAA20701

REACTIVITY
Human

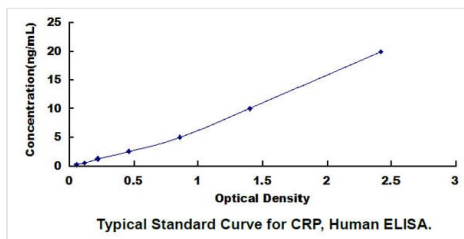
PRODUCT SYNONYMS

C Reactive Protein (CRP); Human C Reactive Protein (CRP) ELISA Kit; C-RP; PTX1; Pentraxin-Related; Pentraxin 1; CRP elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	This assay has high sensitivity and excellent specificity for detection of CRP. No significant cross-reactivity or interference between CRP and analogues was observed.
Sequence Length	91
Assay Type	Quantitative Sandwich
Samples	Human serum, plasma, tissue homogenates, cell lysates, urine, cerebrospinal fluid, cell culture supernates and other biological fluids
Detection Range	0.312-20ng/mL
Sensitivity	< 0.129ng/mL
Intra-assay Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level CRP were tested 20 times on one plate, respectively. Intra-Assay: CV<10%
Inter-assay Precision	Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level CRP were tested on 3 different plates, 8 replicates in each plate. CV(%) = SD/meanX100. Inter-Assay: CV<12%
Preparation and Storage	The stability of kit is determined by the loss rate of activity. The loss rate of this kit is less than 5% within the expiration date under appropriate storage condition. To minimize extra influence on the performance, operation procedures and lab conditions, especially room temperature, air humidity, incubator temperature should be strictly controlled. It is also strongly suggested that the whole assay is performed by the same operator from the beginning to the end.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for CRP elisa kit	Principle of the Assay: The microplate provided in this kit has been pre-coated with an antibody specific to CRP. Standards or samples are then added to the appropriate microplate wells with a biotin-conjugated antibody specific to CRP. Next, Avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. After TMB substrate solution is added, only those wells that contain CRP, biotin-conjugated antibody and enzyme-conjugated Avidin will exhibit a change in color. The enzyme-substrate reaction is terminated by the addition of sulphuric acid solution and the color change is measured spectrophotometrically at a wavelength of 450nm $\pm$ 10nm. The concentration of CRP in the samples is then determined by comparing the O.D. of the samples to the standard curve. Intended Uses: The kit is a sandwich enzyme immunoassay for in vitro quantitative measurement of CRP in human serum, plasma, tissue homogenates, cell lysates, urine, cerebrospinal fluid, cell culture supernates and other biological fluids.
Product Categories/Family for CRP elisa kit	Tumor immunity ; Infection immunity ; Cardiovascular biology ; Rheumatology
References	The influence of bacterial translocation and systemic inflammation on the nutrition, skeletal muscles, and survival of patients with liver cirrhosis ; VM Motsiuk

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	10,415 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
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://www.aaabiotech.com/human-elisa-kits/c-reactive-protein-crp/20701>