

Rat C-Reactive Protein/CRP, C-His Tag

HA211008



Product name:	Rat C-Reactive Protein/CRP, C-His Tag
Species reactivity:	Rat
Bio-Activity:	Testing in progress.
Protein construction description:	A DNA sequence encoding the rat C-Reactive Protein/CRP protein (P48199) (His 20-Ser 230) was expressed with a His tag at the C-terminus.

Background:	C-Reactive Protein (CRP), also known as Pentraxin 1, is a secreted pentameric protein that functions as a sensor and activator for the innate immune response. In humans, it is a major acute-phase protein; its circulating concentration is dramatically elevated at the onset of inflammation. In mice, however, serum CRP levels increase only slightly during inflammation, and the analogous acute phase role is filled by Pentraxin 2. CRP binds, opsonizes, and induces the phagocytosis of bacteria and apoptotic cells. It regulates activation of the classical complement pathway by binding several proteins in the complement cascade as well as Fc gamma RI, Fc gamma RIIA, and Fc gamma RIIB on macrophages and dendritic cells. It also promotes dendritic cell maturation and humoral immunity. In cardiovascular disease, CRP binds to oxidized LDL, exacerbates tissue damage in myocardial infarction, and inhibits the repair of injured vascular endothelium.
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Purity:	>95% as determined by SDS-PAGE.
Endotoxin:	Less than 1.0 EU per µg by the LAL method.
Fragment region:	C-Reactive Protein/CRP (20-230)
Source:	HEK293
Accession:	P48199
Predicted molecular mass:	25.1 kD
Formulation:	Lyophilized from a 0.2 µm filtered solution of PBS, pH7.4, 5% Trehalose, 5% mannitol.
Reconstitution:	Reconstitute at 250 µg/ml in sterile water.
Storage:	Please avoid repeated freeze-thaw cycles. Samples are stable for up to twelve months from date of receipt at -20°C to -80°C. It is recommended that aliquot the reconstituted solution to minimize freeze-thaw cycles.

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Applications: WB=Western blot IHC-P=Immunohistochemistry (paraffin) IF-Cell=Immunofluorescence (Cell) IF-Tissue=Immunofluorescence (Tissue) FC=Flow cytometry IP=Immunoprecipitation

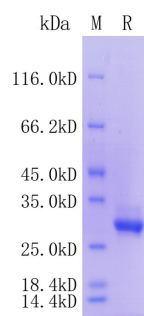


Fig1: Protein on SDS-PAGE under reducing (R) condition.

Note: All products are “FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE”.