

Recombinant Dog CRP Protein, His-tagged

Cat. No. CRP-2733D **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Dog CRP Protein (Gln20-Ser223) with N-His tag was expressed in E. coli.
Species	Dog
Source	E.coli
ProteinLength	Gln20-Ser223
Description	The protein encoded by this gene belongs to the pentraxin family which also includes serum amyloid P component protein and pentraxin 3. Pentraxins are involved in complement activation and amplification via communication with complement initiation pattern recognition molecules, but also complement regulation via recruitment of complement regulators. The encoded protein has a calcium dependent ligand binding domain with a distinctive flattened beta-jellyroll structure. It exists in two forms as either a pentamer in circulation or as a nonsoluble monomer in tissues. It is involved in several host defense related functions based on its ability to recognize foreign pathogens and damaged cells of the host and to initiate their elimination by interacting with humoral and cellular effector systems in the blood. Consequently, the level of this protein in plasma increases greatly during acute phase response to tissue injury, infection, or other inflammatory stimuli. Elevated expression of the encoded protein is associated with severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) infection.

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Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 26.7 kDa Accurate Molecular Mass: 27 kDa
Purity	> 90%
Applications	Positive Control; Immunogen; SDS-PAGE; WB.
Stability	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 centigrade 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.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.
Storage Buffer	20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose and Proclin300.
Reconstitution	Reconstitute in 20mM Tris, 150mM NaCl (pH8.0) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

GENE INFORMATION

Gene Name	CRP C-reactive protein [Canis lupus familiaris (dog)]
Official Symbol	CRP
Synonyms	CRP; C-reactive protein; C-reactive protein; Pentraxin-Related; Pentraxin 1

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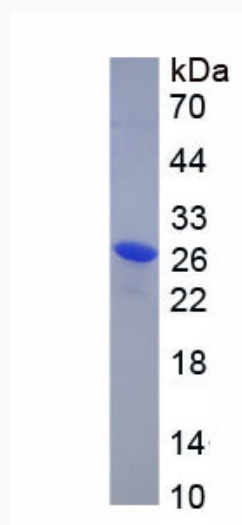
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Gene ID 488629/

mRNA Refseq NM_001314116

Protein Refseq NP_001301045

UniProt ID T2KEN6



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