

## Recombinant Canine CRP Protein

**Cat. No.** CRP-0043C    **Lot. No.** (See product label)

### SPECIFICATION

|                         |   |
|-------------------------|---|
| <b>Product Overview</b> | Recombinant Canine CRP Protein without tag was expressed in HEK293.   |
| <b>Species</b>          | Cattle  |
| <b>Source</b>           | HEK293  |
| <b>Description</b>      | <p>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 infection.</p> |
| <b>Applications</b>     | ELISA, CLIA, CG   |
| <b>Notes</b>            | For research use only, not for use in diagnostic procedure.   |
| <b>Storage</b>          | Short term (up to 7 days) store at 2–8 centigrade. Long term, store at - 20 centigrade.   |

 Tel: 1-631-559-9269    1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)     Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA



Avoid multiple freeze/thaw cycles.

**Storage Buffer** Supplied as a 0.2 µm filtered solution of PBS, pH7.4

## GENE INFORMATION

**Gene Name** CRP C-reactive protein [ Bos taurus (cattle) ]

**Official Symbol** CRP

**Synonyms** CRP; C-reactive protein

**Gene ID** 527553

**mRNA Refseq** NM\_001144097

**Protein Refseq** NP\_001137569

**UniProt ID** C4T8B4

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