

## Recombinant Human C4BPA protein, GST-tagged

**Cat. No.** C4BPA-42H    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
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| <b>Product Overview</b> | Recombinant Human C4BPA(49 a.a. - 597 a.a.) fused with GST tag at N-terminal was expressed in Wheat Germ.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Source</b>           | Wheat Germ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>ProteinLength</b>    | 49-597 a.a.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Description</b>      | <p>This gene encodes a member of a superfamily of proteins composed predominantly of tandemly arrayed short consensus repeats of approximately 60 amino acids. Along with a single, unique beta-chain, seven identical alpha-chains encoded by this gene assemble into the predominant isoform of C4b-binding protein, a multimeric protein that controls activation of the complement cascade through the classical pathway. The genes encoding both alpha and beta chains are located adjacent to each other on human chromosome 1 in the regulator of complement activation gene cluster. Two pseudogenes of this gene are also found in the cluster.</p> |
| <b>Form</b>             | 50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Molecular Mass</b>   | 86.13 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>AA Sequence</b>      | <p>NCGPPPTLSFAAPMDITLTETRFKTGTTLKYTCLPGYVRSHSTQTLTCNSDGEWVYN</p> <p>TFCIYKRCRHPGELRNGQVEIKTDLSEFGSQIEFSCSEGFFLIGSTTSRCEVQDRGVG</p> <p>WSHPLPQCEIVKCKPPDIRNGRHSGEENFYAYGFSVTYSCDPRFSLLGHASISCTV</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                           |

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ENETIGVWRPSPPTCEKITCRKPDVSHGEMVSGFGPIYNYKDTIVFKCQKGFVLRGS  
SVIHCDADSKWNPSPPACEPNSCINLPDIPHASWETYPRPTKEDVYVVGTVLRYRC  
HPGYKPTTDEPTTVICQKNLRWTPYQGCEALCCPEPKLNNGEITQHRKSRPANHCV  
YFYGDEISFSCHETSRFSAICQGDGTWSPRTSPCGDICNFPPKIAHGHIYKQSSSYSF  
FKEEIIYECDKGYILVGQAKLSCSYSHWSAPAPQCKALCRKPELVNGRLSVDKDQYV  
EPENVTIQCDSGYGVVGPQSITCSGNRTWYPEVPKCEWETPEGCEQVLTGKRLMQ  
CLPNPEDVKMALEVYKLSLEIEQLELQRDSARQSTLDKEL

**Applications**

Enzyme-linked Immunoabsorbent Assay; Western Blot (Recombinant protein);  
Antibody Production; Protein Array

**Notes**

Best use within three months from the date of receipt of this protein.

**Storage**

Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

## GENE INFORMATION

**Gene Name**

C4BPA complement component 4 binding protein, alpha [ Homo sapiens ]

**Official Symbol**

C4BPA

**Synonyms**

C4BPA; complement component 4 binding protein, alpha; C4BP, complement  
component 4 binding protein, alpha; C4b-binding protein alpha chain; proline-rich  
protein; PRP; C4BP;

**Gene ID**

722

**mRNA Refseq**

NM\_000715

**Protein Refseq**

NP\_000706

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|----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>MIM</b>                 | 120830                                                                                                                                                                                                                                                                                                                                                                 |
| <b>UniProt ID</b>          | P04003                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Chromosome Location</b> | 1q32                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Pathway</b>             | CD40/CD40L signaling, organism-specific biosystem; Complement and coagulation cascades, organism-specific biosystem; Complement and coagulation cascades, conserved biosystem; Complement cascade, organism-specific biosystem; Immune System, organism-specific biosystem; Innate Immune System, organism-specific biosystem; Pertussis, organism-specific biosystem; |
| <b>Function</b>            | protein binding;                                                                                                                                                                                                                                                                                                                                                       |

