



# Recombinant Rat C4b-binding protein beta chain (C4bpb)

<b>Product Code</b>	CSB-BP720522RA
<b>Abbreviation</b>	C4bpb
<b>Storage</b>	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
<b>Uniprot No.</b>	Q63515
<b>Product Type</b>	Recombinant Protein
<b>Immunogen Species</b>	Rattus norvegicus (Rat)
<b>Purity</b>	≥85% (SDS-PAGE)
<b>Sequence</b>	LDGSC SEPPPVNNSV FVGKETEEQI LGIYLCIKGY HLVGKKSLVF DPSKEWNSTL PECLLGHCPD PVLENGKINS SGPVNISGKI MFECNDGYIL KGSNWSQCLE DHTWAPPLPI CRSRDCEPPE TPVHG YFEGE TFTSGSVVTY YCEDGYHLVG TQKVQCSDGE WSPSYPTCES IQEPPKSAEQ SALEKAILAF QESKDL CNAT ENFVRQLREG GITMEELKCS LEMKTKLKS DILLNYHS
<b>Source</b>	Baculovirus
<b>Target Names</b>	C4bpb
<b>Protein Names</b>	Recommended name: C4b-binding protein beta chain
<b>Expression Region</b>	16-258
<b>Notes</b>	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
<b>Tag Info</b>	Tag type will be determined during the manufacturing process.
<b>Protein Length</b>	Full Length of Mature Protein
<b>Target Details</b>	This gene encodes a member of a superfamily of proteins composed predominantly of tandemly arrayed short consensus repeats of approximately 60 amino acids. A single, unique beta-chain encoded by this gene assembles with seven identical alpha-chains into the predominant isoform of C4b-binding protein, a multimeric protein that controls activation of the complement cascade through the classical pathway. C4b-binding protein has a regulatory role in the coagulation system also, mediated through the beta-chain binding of protein S, a vitamin K-dependent protein that serves as a cofactor of activated protein C. 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. Alternative splicing gives rise to multiple transcript variants.
<b>Reconstitution</b>	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final



concentration) and aliquot for long-term storage at  $-20^{\circ}\text{C}/-80^{\circ}\text{C}$ . Our default final concentration of glycerol is 50%. Customers could use it as reference.

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### Shelf Life

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