



Recombinant Rat C4b-binding protein beta chain (C4bpb)

Product Code	CSB-BP720522RA
Abbreviation	C4bpb
Storage	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.
Uniprot No.	Q63515
Product Type	Recombinant Protein
Immunogen Species	Rattus norvegicus (Rat)
Purity	>85% (SDS-PAGE)
Sequence	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 LEMKKT LKS DILLNYHS
Source	Baculovirus
Target Names	C4bpb
Protein Names	Recommended name: C4b-binding protein beta chain
Expression Region	16-258
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	Tag type will be determined during the manufacturing process.
Protein Length	Full Length of Mature Protein
Target Details	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.
Reconstitution	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°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

Shelf Life

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