



# Recombinant Human C4b-binding protein beta chain (C4BPB)

<b>Product Code</b>	CSB-EP003954HU-B
<b>Storage</b>	Store at -20°C, for extended storage, conserve at -20°C or -80°C.
<b>Uniprot No.</b>	P20851
<b>Product Type</b>	Recombinant Protein
<b>Immunogen Species</b>	Homo sapiens (Human)
<b>Purity</b>	≥85% (SDS-PAGE)
<b>Sequence</b>	SDA EHCPELPPVD NSIFVAKEVE GQILGTYVCI KGYHLVGKKT LFCNASKEWD NTTTECRLGH CPDPVLVNGE FSSSGPVNVS DKITFMCNDH YILKGSNRSQ CLEDHTWAPP FPICKSRDCD PPGNPVHGYF EGNFTLGST ISYYCEDRY Y LVG VQEQQCV DGEWSSALPV CKLIQEAPKP ECEKALLAFQ ESKNLCEAME NFMQQLKESG MTMEELKYSL ELKKAELKAK LL
<b>Source</b>	E.coli
<b>Target Names</b>	C4BPB
<b>Protein Names</b>	Recommended name: C4b-binding protein beta chain
<b>Expression Region</b>	18-252
<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°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.
<b>Shelf Life</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.