

Recombinant Human C4B protein, His/T7-tagged

Cat. No. C4B-254H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human C4B(Asn680~Arg756) fused with His/T7 tag at N-terminal was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	680-756 a.a.
Description	This gene encodes the basic form of complement factor 4, part of the classical activation pathway. The protein is expressed as a single chain precursor which is proteolytically cleaved into a trimer of alpha, beta, and gamma chains prior to secretion. The trimer provides a surface for interaction between the antigen-antibody complex and other complement components. The alpha chain may be cleaved to release C4 anaphylatoxin, a mediator of local inflammation. Deficiency of this protein is associated with systemic lupus erythematosus. This gene localizes to the major histocompatibility complex (MHC) class III region on chromosome 6. Varying haplotypes of this gene cluster exist, such that individuals may have 1, 2, or 3 copies of this gene. In addition, this gene exists as a long form and a short form due to the presence or absence of a 6.4 kb endogenous HERV-K retrovirus in intron 9.
Form	Supplied as lyophilized form in PBS, pH7.4, containing 5% trehalose, 0.01% sarcosyl.
Molecular Mass	12.6kDa

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AA Sequence	MGSSHHHHHH SSGLVPRGSH MASMTGGQQM GRGSEF- N VNFQKAIENEK LGQYASPTAK RCCQDGVTRL PMMRSCEQRA ARVQQPDCRE PFLSCCQFAE SLRKKS RDKG QAGLQR
Endotoxin	<1.0EU per 1g (determined by the LAL method)
Purity	> 95%
Applications	SDS-PAGE; WB; ELISA; IP.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.
Reconstitution	Reconstitute in sterile PBS, pH7.2-pH7.4.
GENE INFORMATION	
Gene Name	C4B complement component 4B (Chido blood group) [Homo sapiens]
Official Symbol	C4B
Synonyms	CH; C4F; CO4; C4B1; C4B2; C4B3; C4B5; C4BD; C4B12; C4B_2; CPAMD3; complement C4-B; C3 and PZP-like alpha-2-macroglobulin domain-containing protein 3; Chido form of C4; basic complement C4; complement C4B1a
Gene ID	721
mRNA Refseq	NM_001002029
Protein Refseq	NP_001002029

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MIM	120820
UniProt ID	P0C0L4
Chromosome Location	6p21.3
Pathway	Activation of C3 and C5, organism-specific biosystem; Complement and coagulation cascades, organism-specific biosystem; Pertussis, conserved biosystem
Function	carbohydrate binding; complement binding; endopeptidase inhibitor activity

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