

Recombinant Human C4B

Cat. No. C4B-27789TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fragment corresponding to amino acids 1347-1446 of Human C4b with a proprietary tag; predicted MWt 36.63kDa inclusive of tag.
Species	Human
Source	Wheat Germ
ProteinLength	100 amino acids
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.
Molecular Weight	36.630kDa inclusive of tags
Form	Liquid

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Purity	Proprietary Purification
Storage buffer	pH: 8.00Constituents:0.31% Glutathione, 0.79% Tris HCl
Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequences of amino acids	NNRQIRGLEEEELQFSLGSKINVKVGNSKGTCLKVLRITYNVLDMMKNTTCQDLQIEVTV KGHVEYTMEANEDYEDYEDELPAKDDPDAPLQPVTPLQLFEG
Sequence Similarities	Contains 1 anaphylatoxin-like domain.Contains 1 NTR domain.

GENE INFORMATION

Gene Name	C4B complement component 4B (Chido blood group) [Homo sapiens]
Official Symbol	C4B
Synonyms	C4B; complement component 4B (Chido blood group); complement component 4B; complement C4-B; C4B1; C4B3; C4F; CH; CO4; CPAMD3;
Gene ID	721
mRNA Refseq	NM_001002029
Protein Refseq	NP_001002029
MIM	120820
Uniprot ID	P0C0L5

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Chromosome Location	6p21.3
Pathway	Complement Activation, Classical Pathway, organism-specific biosystem; Complement and coagulation cascades, organism-specific biosystem; Complement and coagulation cascades, conserved biosystem; Pertussis, organism-specific biosystem; Pertussis, conserved biosystem;
Function	endopeptidase inhibitor activity;

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