

Native Human C4b-Binding Protein

Cat. No. C4BPB-184H **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Species	Human
Source	Human Plasma
Description	C4b-binding protein is a regulatory protein of the Complement Cascade that possesses decay-accelerating activity. Circulating in plasma, it aids in the control of fluid-phase and surface-associated activation of C3 and C5 and serves as a cofactor to Factor 1 in the proteolytic degradation of C4b. There are three isoforms circulating in plasma; 7 alpha chains and 1 Beta chain, 6 alpha chains and 1 Beta chain, and 7 alpha chains without a Beta chain. The 7 alpha, 1 Beta form is the most abundant. All C4BP molecules that contain a Beta chain circulate in plasma in a high-affinity, calcium-dependent complex with vitamin K-dependent, anticoagulant Protein S.
Form	Frozen
Molecular Mass	~ 570,000 (whole molecule)~ 70-75,000 (alpha chains)~ 40-45,000 (beta chain)
Purity	>= 95% by SDS-PAGE
Usage	For research use only
Quality Control Test	Shown to be non reactive for HBsAg, anti-HCV, anti-HBc, and negative for anti-HIV 1 & 2 by FDA approved tests.

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Stability	>1 year
Storage	<=>
Storage Buffer	10 mM Tris, pH 7.4, with 100 mM NaCl+ 0.05% NaN3

GENE INFORMATION

Gene Name	C4BPB complement component 4 binding protein, beta [Homo sapiens]
Official Symbol	C4BPB
Synonyms	C4BPB; complement component 4 binding protein, beta; C4BP, complement component 4 binding protein, beta; C4b-binding protein beta chain; C4b binding protein; beta chain; complement component 4 binding protein; C4BP;
Gene ID	725
mRNA Refseq	NM_000716
Protein Refseq	NP_000707
MIM	120831
UniProt ID	P20851
Chromosome Location	1q32
Pathway	Complement and coagulation cascades, organism-specific biosystem; Complement and coagulation cascades, conserved biosystem; Complement cascade, organism-specific biosystem; FOXA1 transcription factor network, organism-specific biosystem;

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Immune System, organism-specific biosystem; Innate Immune System, organism-specific biosystem; Pertussis, organism-specific biosystem;

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