

Recombinant Human C4BPA protein, His-tagged

Cat. No. C4BPA-49H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human C4BPA protein(548-597 aa), fused with N-terminal His tag, was expressed in E.coli.
Species	Human
Source	E.coli
ProteinLength	548-597 aa
Form	PBS, pH7.4, containing 0.01% SKL, 5%Trehalose.
Bio-activity	C4BPα, also known as C4b-binding protein alpha chain or C4BPα, is a subunit of the complement factor C4b-binding protein (C4BP), which plays a crucial role in the regulation of the complement system, a part of the immune system that helps to defend the body against infection. C4BPα is part of a heterodimeric protein complex that consists of two chains, the alpha chain (C4BPα) and the beta chain (C4BPβ). It can bind to C4b and C3b, thereby inhibiting the formation of the C3 convertase and preventing excessive complement activation. Thus a functional binding ELISA assay was conducted to detect the interaction of recombinant human C4BPα and recombinant mouse C4b. Briefly, C4BPα was diluted serially in PBS with 0.01% BSA (pH 7.4). Duplicate samples of 100 µl were then transferred to C4b-coated microtiter wells and incubated for 1h at 37°C. Wells were washed with PBST and incubated for 1h with anti-C4BPα pAb, then aspirated and washed 3 times. After incubation with HRP labelled secondary antibody for 1h at 37°C, wells were aspirated and washed 5

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times. With the addition of substrate solution, wells were incubated 15-25 minutes at 37°C. Finally, add 50 µ stop solution to the wells and read at 450/630 nm immediately. The binding activity of recombinant human C4BPα and recombinant mouse C4b was shown in Figure, the EC50 for this effect is 0.01 ug/mL.

Molecular Mass	7.1 kDa
Endotoxin	<1.0EU per 1µg (determined by the LAL method.
Purity	>95%
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Aliquot and store at -80°C for 12 months.
Reconstitution	Reconstitute in 10mM PBS (pH7.4) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

GENE INFORMATION

Gene Name	C4BPA complement component 4 binding protein, alpha [Homo sapiens]
Official Symbol	C4BPA
Synonyms	C4BPA; complement component 4 binding protein, alpha; C4BP, complement component 4 binding protein, alpha; C4b-binding protein alpha chain; proline-rich protein; PRP; C4BP;
Gene ID	722
mRNA Refseq	NM_000715

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Protein Refseq	NP_000706
MIM	120830
UniProt ID	P04003

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