

Active Recombinant Human C1QB Protein, His-SUMO-tagged

Cat. No. C1QB-598H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Active Recombinant Human C1QB Protein(28-253 aa), fused with N-terminal His and SUMO tag, was expressed in E.coli.
Species	Human
Source	E.coli
ProteinLength	28-253 aa
Form	PBS, pH7.4, containing 0.01% SKL, 5%Trehalose.
Bio-activity	C1qB protein is a component of the C1 complex in the classical pathway of the complement system. It is a subunit of the C1q molecule, which is the first component of the complement system to initiate the classical pathway. C1q is a hexameric protein composed of six identical subunits, each containing a C1qA, a C1qB, and a C1qC subunit. C1qB plays a key role in eliminating pathogens, regulating inflammatory response and maintaining immune tolerance. The binding of C4b and C1qB is a key step in the activation of the classical pathway in the complement system, thus a functional binding ELISA assay was conducted to detect the interaction of recombinant human C1qB and recombinant mouse C4b. Briefly, C1qB 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-C1qB pAb, then aspirated and washed 3 times. After incubation with HRP labelled secondary antibody

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for 1h at 37°C, wells were aspirated and washed 5 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 C1qB and recombinant mouse C4b was shown, the EC50 for this effect is 0.12 ug/mL.

Molecular Mass	37.5kDa
Endotoxin	<1.0EU per 1µg (determined by the LAL method).
Purity	>90%
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Aliquot and store at -80°C for 12 month.
Reconstitution	Reconstitute in 10mM PBS (pH7.4) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

GENE INFORMATION

Gene Name	C1QB complement component 1, q subcomponent, B chain [Homo sapiens]
Official Symbol	C1QB
Synonyms	C1QB; complement component 1, q subcomponent, B chain; complement component 1, q subcomponent, beta polypeptide; complement C1q subcomponent subunit B; complement component C1q, B chain; complement subcomponent C1q chain B;
Gene ID	713
mRNA Refseq	NM_000491

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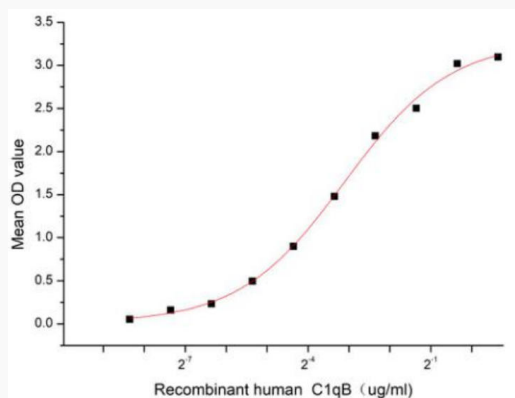
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Protein Refseq NP_000482

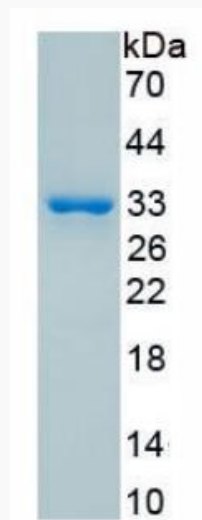
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UniProt ID P02746

Activity



SDS-PAGE



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