

Active Recombinant Human C1QC protein, His-tagged

Cat. No. C1QC-927H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Active Recombinant Human C1QC protein(P02747)(117-245 aa), fused with N-terminal His tag, was expressed in E.coli.
Species	Human
Source	E.coli
ProteinLength	117-245 aa
Form	20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose and Proclin300.
Bio-activity	Complement component 1Q subcomponent C (C1qC) is an important part of the C1 complex in the classical activation pathway of the complement system. C1qC contains multiple domains that recognize and bind to pathogen surfaces or antibody-antigen complexes.C1q associates with the proenzymes C1r and C1s to yield C1, the first component of the serum complement system. Thus a functional ELISA assay was conducted to detect the interaction of recombinant human C1qC and recombinant mouse C1r. Briefly, C1qC was diluted serially in PBS with 0.01% BSA (pH 7.4). Duplicate samples of 100 µl were then transferred to C1r-coated microtiter wells and incubated for 1h at 37°C. Wells were washed with PBST and incubated for 1h with anti-C1qC 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 times. With the addition of substrate solution, wells were incubated 15-25 minutes at

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37°C. Finally, add 50 µ stop solution to the wells and read at 450/630nm immediately. The binding activity of recombinant human C1qC and recombinant mouse C1r was shown, the EC50 for this effect is 0.049ug/mL.

Molecular Mass	44.2kDa
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. Store at -20°C for 12 months. Aliquot and store at -80°C for 12 months.
Reconstitution	Reconstitute in 20mM Tris, 150mM NaCl (pH8.0) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

GENE INFORMATION

Gene Name	C1QC complement component 1, q subcomponent, C chain [Homo sapiens]
Official Symbol	C1QC
Synonyms	C1QC; complement component 1, q subcomponent, C chain; C1QG, complement component 1, q subcomponent, gamma polypeptide; complement C1q subcomponent subunit C; complement component 1, q subcomponent, gamma polypeptide; C1QG; C1Q-C; FLJ27103;
Gene ID	714
mRNA Refseq	NM_001114101

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Protein Refseq	NP_001107573
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MIM	120575
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UniProt ID	P02747
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