

Active Recombinant Human C1QC Protein, His-GST-tagged

Cat. No. C1QC-335H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Active Recombinant Human C1QC Protein(117-245 aa), fused with N-terminal His and GST tag, was expressed in E.coli.
Species	Human
Source	E.coli
ProteinLength	117-245 aa
Form	PBS, pH7.4, containing 0.01%Sarcosyl, 5% Trehalose.
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 37°C. Finally, add 50 µ stop solution to the wells and read at 450/630nm immediately.

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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	>80%
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 ddH2O 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
Protein Refseq	NP_001107573

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MIM	120575
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UniProt ID	P02747
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