

Complement Component 1, Q Subcomponent C (C1qC) Active Protein | C1qC active protein

Active Complement Component 1, Q Subcomponent C (C1qC)

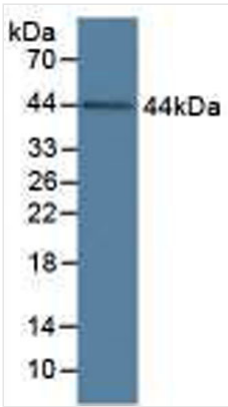
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA149263	E. coli	Homo sapiens (Human)	Activity Assay, Cell Culture

PRODUCT SYNONYMS

Complement Component 1; Q Subcomponent C (C1qC); Active Complement Component 1; C1QG; Complement Component 1 q subcomponent; Gamma Polypeptide; C1qC active protein

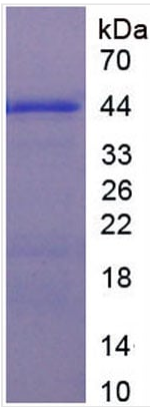
PRODUCT SPECIFICATIONS

Host	E. coli
Reactivity	Homo sapiens (Human)
Purity/Purification	>94%
Form/Format	20mM Tris, 150mM NaCl, pH8.0, containing 0.01% sarcosyl and 5% trehalose.
Applicable Applications for C1qC active protein	Activity Assay, Cell Culture
Source	Prokaryotic expression.
Residues	Lys117~Asp245
Tags	Two N-terminal Tags, His-tag and GST-tag
Endotoxin Level	<1.0EU per 1ug (determined by the LAL method).
Predicted isoelectric point	7.9
Usage	Reconstitute in 20mM Tris, 150mM NaCl (pH8.0) to a concentration of 0.1-1.0 mg/mL. Do not vortex.
Preparation and Storage	Storage: Avoid repeated freeze/thaw cycles. Store at 2-8 degree C for one month. Aliquot and store at -80 degree C for 12 months. Stability Test: The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 degree C for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.



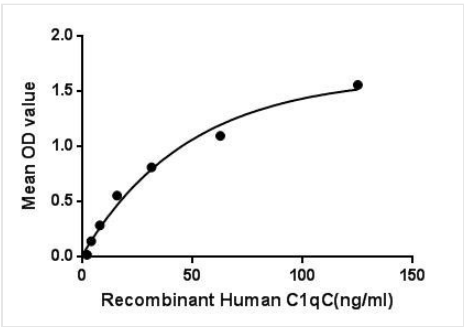
WB (Western Blot)

Figure 3. Western BlotSample: Recombinant C1qC, Human;Antibody: Rabbit Anti-Human C1qC Ab



SDS-PAGE

Figure 2. SDS-PAGESample: Active recombinant C1qC, Human



Bioactivity

Figure. The binding activity of C1qC with APOA1. The complement component 1q (C1q) is composed of 18 polypeptide chains: six A-chains, six B-chains, and six C-chains. Complement Component 1, Q Subcomponent C (C1qC) is six C-chains of C1q. Complement component 1q (C1q) is a protein complex involved in the complement system, which is part of the innate immune system. C1q together with C1r and C1s form the C1 complex. It is potentially multivalent for attachment to the complement fixation sites of immunoglobulin. The sites are on the CH2 domain of IgG and, it is thought, on the CH4 domain of IgM. IgG4 cannot bind C1q, but the other three IgG types can. Besides, Apolipoprotein A1 (APOA1) has been identified as an interactor of C1qC, thus a binding ELISA assay was conducted to detect the interaction of recombinant human C1qC and recombinant human APOA1. Briefly, C1qC were diluted serially in PBS, with 0.01% BSA (pH 7.4). Duplicate samples of 100μL were then transferred to APOA1-coated microtiter wells and incubated for 2h at 37 degree 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, wells were aspirated and washed 3 times. With the addition of substrate solution, wells were incubated 15-25 minutes at 37 degree C. Finally, add 50uL stop solution to the wells and read at 450nm immediately. The binding activity of C1qC and APOA1 was shown in Figure 1, and this effect was in a dose dependent manner. Figure 1. The binding activity of C1qC with APOA1.

KFQS VFTVTRQTHQ PPAPNSLIRF NAVLTNPQGD
YDTSTGKFTC KVPGLYYFVY HASHTANLCV LLYRSGVKVV TFCGHTSKTN
QVNSGGVLLR LQVGEEVWLA VNDYYDMVGI QGSDSVFSGF LLFPD

Sequence

ADDITIONAL INFORMATION

Product Categories/Family for C1qC active protein	Immune molecule
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NCBI AND UNIPROT INFORMATION

NCBI GI #	119615423
NCBI GeneID	714
Molecular Weight	Predicted Molecular Mass: 44.2kDa Accurate Molecular Mass: 44kDa as determined by SDS-PAGE reducing conditions.
NCBI Official Full Name	complement component 1, q subcomponent, C chain, isoform CRA_a

NCBI Official Synonym Full Names	complement C1q C chain
NCBI Official Symbol	C1QC
NCBI Official Synonym Symbols	C1QG; C1Q-C
NCBI Protein Information	complement C1q subcomponent subunit C

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/e-coli-homo-sapiens-human-active-protein/complement-component-1-q-subcomponent-c-c1qc/149263>