

Recombinant Human TMEM175 protein, GST-tagged

Cat. No. TMEM175-11H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human C1QC protein(Lys117~Asp245), fused with N-terminal His tag and GST tag, was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	Lys117~Asp245
Tag	N-His-GST
Form	20mM Tris, 150mM NaCl, pH8.0, containing 0.05% sarcosyl and 5% trehalose.
Bio-activity	<p>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</p>

 Tel: 1-631-559-9269 1-516-512-3133

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100µL were then transferred to APOA1-coated microtiter wells and incubated for 2h 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, wells were aspirated and washed 3 times. With the addition of substrate solution, wells were incubated 15-25 minutes at 37°C. Finally, add 50µL stop solution to the wells and read at 450nm immediately. The binding activity of C1qC and APOA1 was shown in Figure, and this effect was in a dose dependent manner.

Molecular Mass	44.2kDa
Endotoxin	<1.0EU per 1µg (determined by the LAL method).
Purity	>94%
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 20mM Tris, 150mM NaCl (pH8.0) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

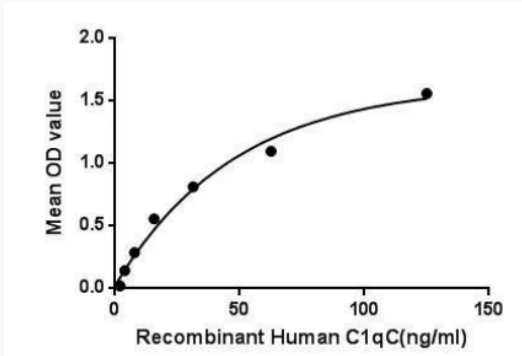
GENE INFORMATION

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;

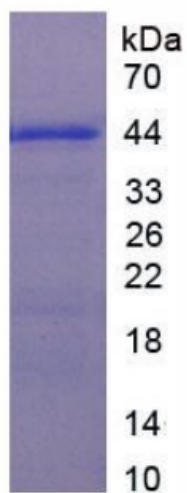
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Gene ID	714																
mRNA Refseq	NM_001114101																
Protein Refseq	NP_001107573																
MIM	120575																
UniProt ID	P02747																
Activity	 <table border="1"> <caption>Approximate data points from the activity graph</caption> <thead> <tr> <th>Recombinant Human C1qC (ng/ml)</th> <th>Mean OD value</th> </tr> </thead> <tbody> <tr><td>0</td><td>0.0</td></tr> <tr><td>10</td><td>0.1</td></tr> <tr><td>20</td><td>0.3</td></tr> <tr><td>30</td><td>0.5</td></tr> <tr><td>40</td><td>0.8</td></tr> <tr><td>60</td><td>1.1</td></tr> <tr><td>125</td><td>1.5</td></tr> </tbody> </table>	Recombinant Human C1qC (ng/ml)	Mean OD value	0	0.0	10	0.1	20	0.3	30	0.5	40	0.8	60	1.1	125	1.5
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