

Native Monkey C1q Protein

Cat. No. C1q-01M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Cynomolgus (Macaca fascicularis) monkey (cyno) C1q is purified from pooled normal cyno serum. Extinction Coefficient: A280 nm = 0.682 at 1.0 mg/mL for pure C1q
Species	Monkey
Source	Cynomolgus Serum
Description	C1q is part of the C1 complex, which is the first complement component in the classical pathway of complement. The C1 complex is a non-covalent assembly of three different proteins (C1q, C1r, and C1s) bound together in a calcium-dependent complex. C1q has six extended arms with domains at the end of each arm that bind to the Fc domains of immunoglobulins such as IgG or IgM. When antibodies bind to antigens, forming immune complexes, they cluster allowing two or more of the six C1q arms to bind to the Fc domains of antibodies. The binding of multiple arms of C1q to immune complexes causes the two C1r proteins in the complex (protease zymogens) to auto-activate. The activated C1r proteases cleave and activate the two C1s protease zymogens in the complex. The activated C1s cleaves complement component C4 releasing C4a and initiating covalent attachment of C4b to the activating surface. Activated C1s also cleaves C2 and the larger fragment of C2 binds to the surface-attached C4b forming C4b,C2a, the C3/C5 convertase of the classical pathway.
Form	Frozen liquid

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

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Molecular Mass	420.72 kDa (18 chains)
Purity	> 85% by SDS-PAGE
Applications	Cyno C1q can be used to coat ELISA plates to capture and quantitate immune complexes in samples from mouse models used for studying immune complex related diseases and conditions.
Storage	At -70 centigrade or below. Avoid freeze/thaw.
Concentration	1 mg/mL
Storage Buffer	10 mM HEPES, 300 mM NaCl, pH 7.2
Preservative	None, 0.22 µm filtered.

GENE INFORMATION

Gene Name	C1QA complement C1q A chain [<i>Macaca fascicularis</i> (crab-eating macaque)]
Official Symbol	C1QA
Synonyms	C1QA; complement C1q A chain; complement C1q subcomponent subunit A
Gene ID	107126479
mRNA Refseq	XM_015441096
Protein Refseq	XP_015296582
UniProt ID	A0A2K5WJV6

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