



ORDERING INFORMATION

Catalog Number: AF3337

Lot Number: WZO02

Size: 100 µg

Formulation: 0.2 µm filtered solution in PBS
with 5% trehalose

Storage: -20° C

Reconstitution: sterile PBS

Specificity: human Complement C1qC

Immunogen: *E. coli*-derived rhC1qC
(aa 115 - 245)

Ig Type: goat IgG

Applications: Western blot
Immunocytochemistry
Direct ELISA

Anti-human Complement C1qC Antibody

Preparation

Produced in goats immunized with purified, *E. coli*-derived, recombinant human Complement Component 1q subcomponent, C precursor (rhC1qC; aa 115 - 245; Accession # P02747). Human Complement C1qC specific IgG was purified by human Complement C1qC affinity chromatography. C1qC is a globular secreted protein and is a subunit of complement component C1q. C1q is composed of 18 polypeptide chains of three distinct subtypes (C1qA, C1qB and C1qC) arranged as 6 disulfide-linked A-B heterodimers and 3 disulfide-linked C-C homodimers. All C1q subunits contain a C1q globular domain and one collagen-like domain. C1q is a subcomponent of complement C1 complex which comprises one C1q and the Ca²⁺-dependent serine protease tetramer C1r₂-C1s₂. C1 complex triggers the classical complement pathway. Within the C1q domain, human C1qC shares approximately 75% amino acid sequence identity with mouse and rat C1qC.

Formulation

Lyophilized from a 0.2 µm filtered solution in phosphate-buffered saline (PBS) with 5% trehalose.

Reconstitution

Reconstitute with sterile PBS. If 0.5 mL of PBS is used, the antibody concentration will be 0.2 mg/mL.

Storage

Lyophilized samples are stable for twelve months from date of receipt when stored at -20° C to -70° C. Upon reconstitution, the antibody can be stored at 2° - 8° C for 1 month without detectable loss of activity. Reconstituted antibody can also be aliquotted and stored frozen at -20° C to -70° C in a manual defrost freezer for six months without detectable loss of activity. **Avoid repeated freeze-thaw cycles.**

Specificity

This antibody has been selected for its ability to recognize human Complement C1qC in the applications listed below. In direct ELISAs and western blots, this antibody shows less than 1% cross-reactivity with rhC1qA and rhC1qB.

Applications

Western blot - This antibody can be used at 0.1 - 0.2 µg/mL with the appropriate secondary reagents to detect human Complement C1qC. The detection limit for rhC1qC is approximately 5 ng/lane under non-reducing and reducing conditions.

Immunocytochemistry - This antibody was used at a concentration of 10 µg/mL to detect human Complement C1qC in HUVECs. Cells were fixed with PBS containing 4% paraformaldehyde for 20 minutes at room temperature and blocked with PBS containing 10% normal donkey serum, 0.1% Triton X-100, and 1% BSA for 45 minutes at room temperature. After blocking, cells were incubated with diluted primary antibody overnight at 4° C followed by Rhodamine Red-coupled anti-goat IgG at room temperature in the dark for one hour. Between each step, cells were washed with PBS containing 0.1% BSA.

Direct ELISA - This antibody can be used at 0.5 - 1.0 µg/mL with the appropriate secondary reagents to detect human Complement C1qC. The detection limit for rhC1qC is approximately 3 ng/well.

Optimal dilutions should be determined by each laboratory for each application.