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TECHNICALLY Speaking

Place your order with CEDARLANE® or your local distributor.

Please contact CEDARLANE® for lot specific information.

Anti-Human gC1q-R Monoclonal Antibody

Catalogue#	Format	Size	Concentration	Isotype Control
CL7601A	Ascites	0.5ml	N/A	CLCMG100
CL7601AP	Purified	250ug	1.0 mg/ml	CLCMG100
CL7601B	Biotin	100ug	0.1 mg/ml	CLCMG115
CL7601F	FITC	100ug	0.1 mg/ml	CLCMG101

Isotype: Mouse IgG1κ

DESCRIPTION:

Cedarlane's anti-human gC1q-R Monoclonal Antibody is specific for the gC1q-R membrane protein. This acidic, ubiquitously expressed, single chain protein binds to the globular head domains of complement component C1q and has a molecular weight of 33kDa. The C1q ligand is a subcomponent of the first component of complement on endothelial cells which plays a key role in immune response.

Studies have shown gC1q-R to be present on the surface of vascular and blood cells. gC1q-R is capable of interacting with several proteins involved in blood clotting such as thrombin, prothrombin and the heparin binding form of vitronectin.

This clone (60.11) IgG1 kappa recognizes the N-terminal sequence corresponding to residues 76-93 and is one of the C1q binding sites. This clone has been reported to work in flow cytometry (Raji and U937 cells), Western Blotting and ELISA. It has also been used to inhibit functional studies. We also sell another clone of the gC1q-R antibody, 74.5.2 which recognizes the C-terminal sequence corresponding to residues 204-218. This is the site on gC1qR/p33 where High molecular kininogen (HK) binds.

PRESENTATION:

Ascites: From ascitic fluid.

Purified: Purified IgG buffered in PBS and 0.02% NaN₃. (Purified from ascitic fluid via Protein G Chromatography).

Biotin, FITC: Biotin/FITC/PE conjugated IgG buffered in PBS, 0.02% NaN₃ and EIA grade BSA as a stabilizing protein to bring total protein concentration to 4-5 mg/mL.

Continued Overleaf...

For more information or to place an order please contact...

CEDARLANE®
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or visit our website for a list of our international distributors including contact information

website: www.cedarlanelabs.com • e-mail: info@cedarlanelabs.com

STORAGE/STABILITY:

For all formats, store at 4°C. For long term storage (**Ascites, Purified, Biotin, FITC**), aliquot and freeze unused portion at -20°C in volumes appropriate for single usage. Avoid freeze/thaw cycles.

SPECIFICATIONS:

Clone: 60.11

Hybridoma Production:

Immunization:

Immunogen: Mature form of Human gC1q-R membrane protein

Donor: Balb/c mice spleen cells

Fusion Partner: NSO Mouse Myeloma Partner

Specificity: Human gC1q-R membrane protein

Ig Class: Mouse IgG1κ

N.B. Appropriate control samples should always be included in any labeling studies.

*** For optimal results in various applications, it is recommended that each investigator determine dilutions appropriate for individual use.**

REFERENCES:

1. Ghebrehwet B et al. 1996. Identification of Functional Domains on gC1Q-R, a Cell Surface Protein That Binds to the Globular “Heads” of C1Q, Using Monoclonal Antibodies and Synthetic Peptides, *Hybridoma* July 30; Volume 15, Number 5.

2. Lim B *et al.* 1996. The Binding Protein for Globular Heads of Complement C1q, gC1qR Functional Expression and Characterization As a Novel Vitronectin Binding Factor. *The Journal of Biological Chemistry*. October 25, 1996; 271 (43):26739-26744.

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