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Produktinformation



Forschungsprodukte & Biochemikalien



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Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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See the following pages for more information!



Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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Technically
Speaking

CEDARLANE[®]
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Conveniently Delivering You Today's Innovations
for the Science of Tomorrow™

**Anti-Human C3/C3b/iC3b/C3dg
Monoclonal Antibody**

| Catalogue# | Format | Size | Concentration | Isotype Control |
|------------------|----------|-------|---------------|-----------------|
| CL7637AP | Purified | 250µg | 1.0 mg/ml | CLCMG2A00 |
| CL7637APC | APC | 100ug | 0.1mg/ml | CLCMG2A05 |
| CL7637B | Biotin | 100µg | 0.1 mg/ml | CLCMG2A15 |
| CL7637F | FITC | 100µg | 0.1 mg/ml | CLCMG2A01 |
| CL7637PE | PE | 50µg | 0.1 mg/ml | CLCMG2A04 |

Isotype: Mouse IgG_{2a}

DESCRIPTION:

Cedarlane's anti-Human C3/C3b/iC3b/C3dg monoclonal antibody specifically binds human C3 as well as the breakdown products C3b, iC3b and C3dg. C3 is the most abundant complement protein in serum. C3 and its cleavage products, C3a and C3b, play a central role in the complement activation cascade. C3b forms an integral part of the C3 and C5 convertases as it promotes complement activation and the subsequent formation of the membrane attack complex. C3a possesses anaphylatoxic as well as various immunoregulatory properties.

Also, C3 has been implicated in developmental and non-inflammatory process such as hematopoiesis, skeletal and vascular development and reproduction.

Cedarlane's CL7637 (clone: 1H8) and CL7636 (clone: 7C12) recognize separate, non-overlapping epitopes on C3 fragments. Clone 1H8 is suitable for use in Flow Cytometry, ELISA and Immunofluorescence.

PRESENTATION:

Purified: Purified IgG buffered in PBS and 0.02% NaN₃. (Purified from ascitic fluid via Protein G Chromatography). For maximum recovery of contents, spin down tube before use.

APC, Biotin, FITC, and PE: 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.

STORAGE/STABILITY:

For all formats, store at 4°C. DO NOT FREEZE **APC** and **PE** conjugate. For long term storage (**Purified, Biotin, FITC**), aliquot and freeze unused portion at -20°C in volumes appropriate for single usage. Avoid freeze/thaw cycles.

Continued Overleaf.....

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registered company.

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SPECIFICATIONS:

Clone: 1H8

Hybridoma Production:

Immunization:

Immunogen: Human C3b(i) coupled to sepharose 4B.

Donor: BALB/c mice

Fusion Partner: Mouse myeloma cell line Sp2/0-Ag 14

Specificity: This antibody is specific for human C3/C3b/iC3b/C3dg.

TEST RESULTS:

Tissue Distribution by Flow Cytometry Analysis:

Cell Concentration: 1×10^6 cells per tests

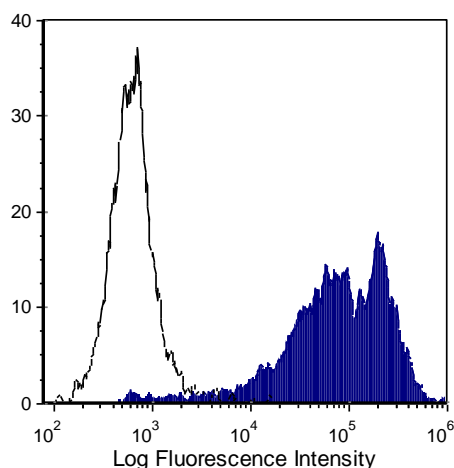
Antibody Concentration Used: $0.1 \mu\text{g}/10^6$ cells

Cell Source:

Balb/c thymus (activated with anti-Mouse T-Cells and Human Serum)

Percentage of cells stained above control:

90.18%



Balb/c mouse thymocytes incubated with rabbit anti-mouse T cells and then incubated with fresh human serum were stained with anti-C3/C3b/iC3b/C3dg (clone: 1H8) (filled histogram) or mouse IgG2a isotype control (open histogram).

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. Kennedy AD, et al. Rituximab infusion promotes rapid complement depletion and acute CD20 loss in chronic lymphocytic leukemia. *J Immunol.* 2004 Mar 1;172(5):3280-8.
2. Williams ME, et al. Thrice-Weekly Low-Dose Rituximab Decreases CD20 Loss via Shaving and Promotes Enhanced Targeting in Chronic Lymphocytic Leukemia. *J Immunol.* 2006 Nov 15;177(10):7435-43.
3. Lindorfer MA, et al. A novel approach to preventing the hemolysis of paroxysmal nocturnal hemoglobinuria: both complement-mediated cytolysis and C3 deposition are blocked by a monoclonal antibody specific for the alternative pathway of complement. *Blood.* 2010 Mar 18;115(11):2283-91.
4. Beurskens FJ, et al. Exhaustion of Cytotoxic Effector Systems May Limit Monoclonal Antibody-Based Immunotherapy in Cancer Patients. *J Immunol.* 2012 Apr 1;188(7):3532-41.
5. Pokrass MJ, et al. Activation of complement by monoclonal antibodies that target cell-associated β_2 -microglobulin: implications for cancer immunotherapy. *Mol Immunol.* 2013 Dec;56(4):549-60.

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