9853 Pacific Heights Blvd.
Suite D. San Diego,
CA 92121, USA
Tel: 858-263-4982
Email: info@abeomics.com

30-2940: Anti-C3/C3b/iC3b Monoclonal Antibody (Clone: 6C9)

Clonality :	Monoclonal
Clone Name :	6C9
Application :	ELISA,FACS,WB
Reactivity :	Mouse,Human,Non-Human Primates
Gene :	C3
Gene ID :	718
Uniprot ID :	P01024
Format :	Purified
Alternative Name :	complement C3, complement component C3, complement component C3b, complement component iC3b
Isotype :	Mouse IgG1 kappa
Immunogen Information :	Human complement component C3

Description

Complement component C3 plays a key role in the activation of complement system. In classical complement system pathway the activated C2 and C4 form classical C3-convertase (C4b2b) which cleaves C3 into C3a and C3b. In alternative complement system pathway C3 is cleaved by alternative C3-convertase (C3bBb), composed of C3b (which can be generated also by spontaneous hydrolysis of C3) and the activated form of factor B. C3b activates downstream cascade leading to formation of pores in the plasma membrane of attacked cell. C3b and its proteolytically inactive form iC3b also serve as important opsonins. C3b can generate C3f, as well as the iC3b can be further cleaved into C3c, C3d and C3g. Complement system is regulated by effective inactivation of free C3b by factor H and factor I. C3b attached to the surface of its target is protected from this inactivation. Complement system is also regulated by other proteins, e.g. CD35, CD46, CD55, or CD59. Undesired activation of complement cascade can lead to severe diseases such as PNH, rheumatoid arthritis, macular degeneration and other. Recently it has been demonstrated to take part in complications associated with Covid-19.

Specificity: The mouse monoclonal antibody 6C9 recognizes complement components C3, C3b, and iC3b. It does not cross-react with C3d.

Product Info

Amount :	0.1 mg
Purification :	Purified by protein-A affinity chromatography.
Content :	Phosphate buffered saline (PBS), pH 7.4, 15 mM sodium azide
Storage condition :	Store at 2-8°C. Do not freeze.

Application Note

Flow cytometry: Recommended dilution: 0.5-4 µg/ml.

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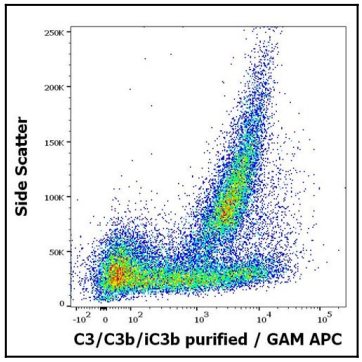


Figure 1: Flow cytometry surface staining pattern of human stimulated (PMA + Ionomycin) peripheral blood mononuclear cells stained using anti-human C3/C3b/iC3b (6C9) purified antibody (concentration in sample 0.5 µg/ml) GAM APC.

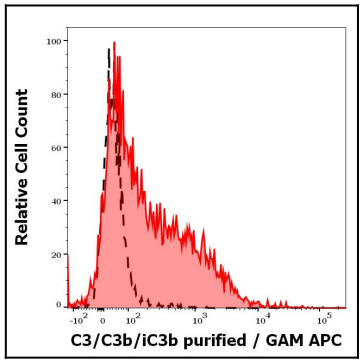


Figure 2: Separation of human lymphocytes stained using anti-human C3/C3b/iC3b (6C9) purified antibody (concentration in sample 0.5 µg/ml, GAM APC, red-filled) from lymphocytes stained using mouse IgG1 isotype control (MOPC-21) purified antibody (concentration in sample 0.5 µg/ml, same as C3b/iC3b purified concentration, GAM APC, black-dashed) in flow cytometry analysis (surface staining) of human stimulated (PMA + Ionomycin) peripheral blood mononuclear cell suspension.

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