

**Antibody to Complement C3 (3E7)**
MOUSE MONOCLONAL

Catalog Number: AB-V82
Quantity: 100 micrograms
Format: PBS (0.14 M Sodium Chloride; 0.003 M Potassium Chloride; 0.002 M Potassium Phosphate; 0.01 M Sodium Phosphate; pH 7.4), no preservative.
Host: Mouse
Isotype: IgG1
Clone: 3E7
Immunogen: Human C3b

Background: The complement system is a network of small proteins in the blood, primarily synthesized by the liver, that circulate as inactive precursors until activated by specific triggers. Proteolytic activation initiates a cascade that amplifies the immune response and culminates in formation of the membrane attack complex, which can lyse target cells. Complement component 3 (C3) is central to this process. Cleavage of C3 by C3 convertase generates C3b and iC3b, with C3b driving inflammation and covalently binding to microbial surfaces to promote opsonization.

Specificity & Preparation: This mouse IgG1 monoclonal antibody is generated against human complement component 3 (C3) and recognizes mouse and human homologs of C3 and breakdown products C3b, iC3b and C3d. 3E7 recognizes human C3b and iC3b (but not C3d).

Usage: Applications include western blot, immunoprecipitation, flow cytometry, and ELISA. Working dilutions must be determined by end user.

Storage: Store antibody at -20°C for one year. Avoid repeated freezing and thawing. Gently spin down material 5-10 seconds in a microfuge before use.



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Selected References:

1. Kennedy AD, Solga MD, Schuman TA, Chi AW, Lindorfer MA, Sutherland WM, Foley PL, Taylor RP (2003) An anti-C3b(i) mAb enhances complement activation, C3b(i) deposition, and killing of CD20+ cells by rituximab. Blood 101(3):1071-1079. doi: 10.1182/blood-2002-03-0876 PMID: 12393727

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