

**Antibody to Complement C3 (5G9)**  
MOUSE MONOCLONAL

**Catalog Number:** AB-V81  
**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:** 5G9  
**Immunogen:** Human C3b -Sepharose

**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. 5G9 blocks the classical pathway of complement activation.

**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.

*To view protocol(s) for this and other products please visit: [www.ATSBio.com/library/protocols](http://www.ATSBio.com/library/protocols)*