

**Mouse Anti-Complement C3 [B9]: MC0213, MC0213RTU7**

**Intended Use:** For Research Use Only

**Description:** C3 plays a central role in the activation of the complement system. Its processing by C3 convertase is the central reaction in both classical and alternative complement pathways. After activation C3b can bind covalently, via its reactive thioester, to cell surface carbohydrates or immune aggregates. Derived from proteolytic degradation of complement C3, C3a anaphylatoxin is a mediator of local inflammatory process. It induces the contraction of smooth muscle, increases vascular permeability and causes histamine release from mast cells and basophilic leukocytes. Acylation stimulating protein (ASP): adipogenic hormone that stimulates triglyceride (TG) synthesis and glucose transport in adipocytes, regulating fat storage and playing a role in postprandial TG clearance. Appears to stimulate TG synthesis via activation of the PLC, MAPK and AKT signaling pathways. Ligand for C5AR2. Promotes the phosphorylation, ARRB2-mediated internalization and recycling of C5AR2.

**Specifications:**

Clone: B9  
 Source: Mouse  
 Isotype: IgG1k  
 Immunogen: Human C3 aa 541-840  
 Reactivity: Human, mouse, rat  
 Localization: Cytoplasm, secreted  
 Formulation: Antibody in PBS pH7.4, containing BSA and  $\leq 0.09\%$  sodium azide (NaN<sub>3</sub>)  
 Storage: Store at 2°- 8°C  
 Applications: IHC, ELISA, CC/IF, IP, WB  
 Package:

Description	Catalog No.	Size
Complement C3 Concentrated	MC0213	1 ml
Complement C3 Prediluted	MC0213RTU7	7 ml

**IHC Procedure\*:**

Positive Control Tissue: Liver, cerebral cortex and cardiac muscle tissues; kidney, lung  
 Concentrated Dilution: 50-200  
 Pretreatment: Citrate pH6.0 or EDTA pH8.0, 15 minutes using Pressure Cooker, or 30-60 minutes using water bath at 95°-99°C  
 Incubation Time and Temp: 30-60 minutes @ RT (IHC) or 37°C (IF)  
 Detection: Refer to the detection system manual

\* Result should be confirmed by an established diagnostic procedure.



FFPE mouse spleen stained with anti-Complement C3 using DAB

**References:**

1. Molecular composition of the alveolar lining fluid in the aging lung. Moliva, JI. et al. Age (Dordr). 36: 9633, 2014.
2. Alpha-melanocyte stimulating hormone ameliorates disease activity in an induced murine lupus-like model. Botte, DA. et al. Clin. Exp. Immunol.. 177: 381-90, 2014.
3. Levels of acylation stimulating protein and the complement component 3 precursor are associated with the occurrence and development of coronary heart disease. Jiang, H. et al. Exp Ther Med. 8: 1861-1866, 2014.

Doc. 100-MC0213  
Rev. A