Complement C3, mouse mAb

Ordering Information
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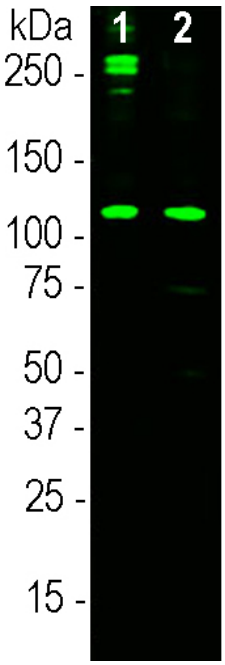
HGNC Name: *C3*
UniProt:
RRID: *AB_2572255*
Immunogen: *Recombinant human C3 N-terminal anaphylatoxin construct, amino acids 668-741 of NP_000055.2*
Format: *Purified antibody at 1mg/mL in 50% PBS, 50% glycerol plus 5mM NaN_3*
Storage: *Store at 4°C for short term, for longer term at -20°C*
Recommended dilutions:
WB: 1:5,000-1:10,000.

Applications	Host	Isotype	Molecular Wt.	Species Cross-Reactivity
WB, ELISA	Mouse	IgG2b	185kDa	Hu



Western blot analysis of MCA-7C1 on human serum samples. Blot of 0.1µg purified human C3 protein (lane 1), 10µg normal human serum proteins (lane 2) was probed with MCA-7C1 at a 1:5,000 dilution. The MCA-7C1 monoclonal binds strongly and cleanly to a band at about 115kDa which represents the intact α subunit of C3 and various proteolytic bands at approximately 68kDa and 48kDa. Bands at 190kDa and above are likely the pro-C3 and its glycosylated form.

Background Complement component 3, often simply called C3, is the third protein in the complement system. The complement system “complements” the ability of antibodies and phagocytic cells to clear pathogens such as bacteria and viruses from the organism and can trigger inflammation and remove debris from cells and tissues. C3 is involved in both the classical and alternative pathway. The MCA-7C1 antibody binds to the anaphylotoxin-like domain in the α subunit of human C3.

References:

1. Janeway CA et al. The complement system and innate immunity. The Immune System in Health and Disease. 5th edition (2001). 2. Brade V, Hall RE, Colten HR. Biosynthesis of pro-C3, a precursor of the third component of complement.J. Exp. Med. 146:759-765 (1977). 3. Xia Z, ET AL. Acylation-stimulating Protein (ASP)/Complement C3adesArg Deficiency Results in Increased Energy Expenditure in Mice. J. Biol. Chem. 279:4051-7 (2004). 4. Maslowska M, et al. Plasma acylation stimulating protein, adipsin and lipids in non-obese and obese populations. Eur. J. Clin. Inv. 29:679–86 (1999). 5. Koistinen HA, et al. Plasma Acylation Stimulating Protein Concentration and Subcutaneous Adipose Tissue C3 mRNA Expression in Nondiabetic and Type 2 Diabetic Men. Arteriosclerosis, Thrombosis, and Vascular Biology 21:1034–9 (2001).

Abbreviation Key:

mAb—Monoclonal Antibody pAb—Polyclonal Antibody WB—Western Blot IF—Immunofluorescence ICC—Immunocytochemistry IHC—Immunohistochemistry E—ELISA Hu—Human Mo—Monkey Do—Dog Rt—Rat Ms—Mouse Co—Cow Pi—Pig Ho—Horse Ch—Chicken Dr—D. rerio Dm—D. melanogaster Sm—S. mutans Ce—C. elegans Sc—S. cerevisiae Sa—S. aureus Ec—E. coli.