

## Mouse anti-Human C3 Monoclonal Antibody | anti-C3 antibody

Mouse Anti Human C3

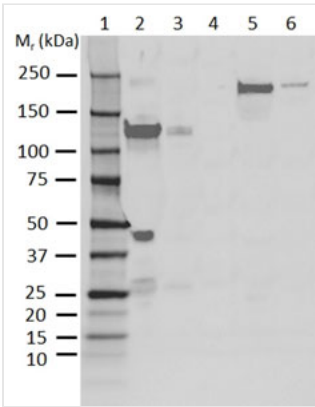
|                              |                      |                            |                                     |
|------------------------------|----------------------|----------------------------|-------------------------------------|
| CATALOG #<br><b>AAA50373</b> | HOST<br><b>Mouse</b> | REACTIVITY<br><b>Human</b> | APPLICATIONS<br><b>Western Blot</b> |
|------------------------------|----------------------|----------------------------|-------------------------------------|

### PRODUCT SYNONYMS

C3; Monoclonal Antibody; Mouse Anti Human C3; CPAMD1; anti-C3 antibody

### PRODUCT SPECIFICATIONS

|                                              |                                                                                                                                                                                                                                                                                                                         |
|----------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                         | Mouse                                                                                                                                                                                                                                                                                                                   |
| Reactivity                                   | Human                                                                                                                                                                                                                                                                                                                   |
| Clonality                                    | Monoclonal                                                                                                                                                                                                                                                                                                              |
| Isotype                                      | IgG1                                                                                                                                                                                                                                                                                                                    |
| Clone Number                                 | AB01-3B4                                                                                                                                                                                                                                                                                                                |
| Purity/Purification                          | Purified IgG prepared by affinity chromatography on Protein G                                                                                                                                                                                                                                                           |
| Form/Format                                  | Liquid; Phosphate Buffered Saline                                                                                                                                                                                                                                                                                       |
| Concentration                                | 1.0 mg/ml (varies by lot)                                                                                                                                                                                                                                                                                               |
| Sequence Length                              | 1663                                                                                                                                                                                                                                                                                                                    |
| Applicable Applications for anti-C3 antibody | WB (Western Blot)                                                                                                                                                                                                                                                                                                       |
| Immunogen                                    | E Coli-derived recombinant human C3 (Gly1200-Asn1663), Swiss-Prot: P01024                                                                                                                                                                                                                                               |
| Fusion Partners                              | Spleen cells from mice immunized with BALB/c were fused with cells of the mouse SP2/0 myeloma cell line.                                                                                                                                                                                                                |
| Preservative Stabilizers                     | 0.09% Sodium Azide (NaN <sub>3</sub> )                                                                                                                                                                                                                                                                                  |
| Preparation and Storage                      | Store at 4 degree C or at -20 degree C if preferred.<br>Storage in frost-free freezers is not recommended.<br>This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody.<br>Should this product contain a precipitate we recommend microcentrifugation before use. |



Application Data

Detection of human C3 was performed using Mouse anti Human C3 at 0.5 ug/ml followed by Rabbit F(ab')<sub>2</sub> anti Mouse IgG-HRP at 1:2000. Lane 2 shows the C3 alpha chain at molecular weight of approximately 115 kDa and the C3c alpha chain fragment 2 at approximately 39 kDa. Lane 5 and 6 shows the mature C3 at molecular weight of approximately 186 kDa. Human plasma was run under reducing conditions at dilutions of 1/20 and 1/200 respectively in lanes 2 and 3, and under non-reducing conditions at dilutions of 1/20 and 1/200 in lanes 5 and 6, respectively. Lane 4 was left blank

ADDITIONAL INFORMATION

Related Product Information for anti-C3 antibody

Mouse anti Human C3 antibody, clone AB01-384 recognizes complement C3. C3 is a central component of the classical, alternate and lectin pathways in the complement cascade which forms part of the innate immune defenses.

The central position of C3 in the cascade has led to the emergence of immune invasion strategies by many human pathogens, including *Staphylococcus aureus* which expresses 2 proteins that interfere with the activation of C3 (Garcia et al. 2012). C3 Deficiencies in humans also show an increased susceptibility to bacterial infections in early childhood the development of autoimmune disease and kidney diseases (Ricklin et al. 2016).

Conversely, complement over-activation can result in various disease pathologies, including induction of inflammatory pathways causing tissue damage. With complements' role in various diseases, pharmaceutical and biotech companies have targeted the cascade for potential therapeutic targets in a range of immune and inflammatory diseases as well as in transplantation medicine (Ricklin et al. 2012).

C3 is activated via its' cleavage into fragments which have varying functions within the complement cascade.

NCBI AND UNIPROT INFORMATION

|                                  |                                                |
|----------------------------------|------------------------------------------------|
| NCBI GI #                        | 152012784                                      |
| NCBI GeneID                      | 718                                            |
| UniProt Accession #              | P01024                                         |
| NCBI Official Full Name          | Complement component 3                         |
| NCBI Official Synonym Full Names | complement C3                                  |
| NCBI Official Symbol             | C3                                             |
| NCBI Official Synonym Symbols    | ASP; C3a; C3b; AHUS5; ARMD9; CPAMD1; HEL-S-62p |
| NCBI Protein Information         | complement C3                                  |
| UniProt Protein Name             | Complement C3                                  |
| UniProt Gene Name                | C3                                             |
| UniProt Synonym Gene Names       | CPAMD1; ASP                                    |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/monoclonal/c3-antibody-clone-ab01-3b4-western-blot-elisa/50373>