# Complement C3, C3c (C3) Antibody – Sheep Polyclonal

## PRODUCT OVERVIEW

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| **Product Name** | Complement C3, C3c, Polyclonal Antibody |
| **Full Product Name** | Complement C3, C3c (Complement Component C3c, C3/C3c, Acylation Stimulating Protein Cleavage Product, ASP, Complement Component 3, Complement Factor 3, CPAMD1) (HRP) |
| **Product Gene Name** | anti-C3 antibody |
| **Product Synonym Names** | Anti -Complement C3, C3c (Complement Component C3c, C3/C3c, Acylation Stimulating Protein Cleavage Product, ASP, Complement Component 3, Complement Factor 3, CPAMD1) (HRP) |
| **Clonality** | Polyclonal |
| **Isotype** | IgG |
| **Host** | Sheep |
| **Species Reactivity** | Human |
| **Form/Format** | Supplied as a liquid in PBS, pH 7.2, 0.01% thimerosal. Labeled with horseradish peroxidase (HRP). |
| **Purity/Purification** | Affinity Purified<br>Purified by Protein G affinity chromatography. |
| **Specificity** | Recognizes human C3c. |
| **Preparation and Storage** | May be stored at 4 degree C for short-term only. For long-term storage and to avoid repeated freezing and thawing, add sterile 40-50% glycerol, aliquot and store at -20 degree C. Aliquots are stable for at least 12 months at -20 degree C. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap. Further dilutions can be made in assay buffer.<br>Labeled with horseradish peroxidase (HRP). Sodium azide is a potent inhibitor of peroxidase and should not be added to HRP conjugates. HRP conjugates are sensitive to light. |
| **Molecular Weight** | 187,148 Da |
| **Chromosome Location** | Chromosome: 19; NC_000019.9 (6677846..6720662, complement). Location: 19p13.3-p13.2 |
| **OMIM** | 120700 |
| **3D Structure** | ModBase 3D Structure for P01024 |
| **Immunogen** | Complement 3c |
| **Product Categories/Family for anti-C3 antibody** | Antibodies; Abs to Complement |
| **Applications Tested/Suitable for anti-C3 antibody** | ELISA (EL/EIA), Western Blot (WB) |
| **Application Notes for anti-C3 antibody** | Suitable for use in ELISA and Western Blot.<br>Dilution: ELISA: 1:200-1:800<br>Western Blot: 1:500-1:2000 |
| **Related Product Information for anti-C3 antibody** | MBS626070 is an antibody targeting C3. Also known as Complement C3, C3c (Complement Component C3c, C3/C3c, Acylation Stimulating Protein Cleavage Product, ASP, Complement Component 3, Complement Factor 3, CPAMD1) (HRP). Reactive in Human. Host: Sheep. |
| **Other Notes** | Small volumes of anti-C3 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply. |

## ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for C3. It may not necessarily be applicable to this product.

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| **NCBI GI #** | 115298678 |
| **NCBI GeneID** | 718 |
| **NCBI Accession #** | NP_000055.2 |
| **UniProt Primary Accession #** | P01024 |
| **UniProt Secondary Accession #** | A7E236 |
| **UniProt Related Accession #** | P01024; Q6LDJ0 |
| **GenBank Nucleotide #** | NM_000064.2 |
| **NCBI Official Full Name** | complement C3 |
| **NCBI Official Synonym Full Names** | complement component 3 |
| **NCBI Official Symbol** | C3 |
| **NCBI Official Synonym Symbols** | ASP; AHUS5; ARMD9; CPAMD1 |
| **UniProt Protein Name** | Complement C3 |
| **UniProt Synonym Protein Names** | C3 and PZP-like alpha-2-macroglobulin domain-containing protein 1 |
| **Protein Family** | Complement C3 |
| **UniProt Gene Name** | C3 |
| **UniProt Synonym Gene Names** | CPAMD1 |
| **UniProt Entry Name** | CO3_HUMAN |
| **NCBI Protein Information** | complement C3; OTTHUMP00000197086; complement component C3; acylation-stimulating protein cleavage product; C3 and PZP-like alpha-2-macroglobulin domain-containing protein 1 |
| **NCBI Summary for C3** | Complement component C3 plays a central role in the activation of complement system. Its activation is required for both classical and alternative complement activation pathways. People with C3 deficiency are susceptible to bacterial infection. [provided by RefSeq] |

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| **UniProt Comments for C3** | C3: 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. Defects in C3 are the cause of complement component 3 deficiency (C3D). A rare defect of the complement classical pathway. Patients develop recurrent, severe, pyogenic infections because of ineffective opsonization of pathogens. Some patients may also develop autoimmune disorders, such as arthralgia and vasculitic rashes, lupus-like syndrome and membranoproliferative glomerulonephritis. Genetic variation in C3 is associated with susceptibility to age-related macular degeneration type 9 (ARMD9). ARMD is a multifactorial eye disease and the most common cause of irreversible vision loss in the developed world. In most patients, the disease is manifest as ophthalmoscopically visible yellowish accumulations of protein and lipid that lie beneath the retinal pigment epithelium and within an elastin- containing structure known as Bruch membrane. Defects in C3 are a cause of susceptibility to hemolytic uremic syndrome atypical type 5 (AHUS5). An atypical form of hemolytic uremic syndrome. It is a complex genetic disease characterized by microangiopathic hemolytic anemia, thrombocytopenia, renal failure and absence of episodes of enterocolitis and diarrhea. In contrast to typical hemolytic uremic syndrome, atypical forms have a poorer prognosis, with higher death rates and frequent progression to end-stage renal disease. Susceptibility to the development of atypical hemolytic uremic syndrome can be conferred by mutations in various components of or regulatory factors in the complement cascade system. Other genes may play a role in modifying the phenotype. Increased levels of C3 and its cleavage product ASP, are associated with obesity, diabetes and coronary heart disease. Short-term endurance training reduces baseline ASP levels and subsequently fat storage.<br><br>Protein type: Inhibitor; Secreted; Secreted, signal peptide<br><br>Chromosomal Location of Human Ortholog: 19p13.3-p13.2<br><br>Cellular Component: extracellular space; plasma membrane; extracellular region<br><br>Molecular Function: protein binding; endopeptidase inhibitor activity; C5L2 anaphylatoxin chemotactic receptor binding; receptor binding<br><br>Biological Process: regulation of immune response; complement activation, alternative pathway; signal transduction; fatty acid metabolic process; complement activation; G-protein coupled receptor protein signaling pathway; positive regulation of angiogenesis; positive regulation of activation of membrane attack complex; positive regulation of type IIa hypersensitivity; positive regulation of G-protein coupled receptor protein signaling pathway; regulation of complement activation; innate immune response; immune response; positive regulation of protein amino acid phosphorylation; inflammatory response; complement activation, classical pathway<br><br>Disease: Complement Component 3 Deficiency, Autosomal Recessive; Hemolytic Uremic Syndrome, Atypical, Susceptibility To, 5; Macular Degeneration, Age-related, 9 |
| **Research Articles on C3** | **1.** Complement 3 and factor h in human cerebrospinal fluid have roles in Parkinson's disease, Alzheimer's disease, and multiple-system atrophy |
| **Precautions** | All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines. |
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