

Rabbit C3 Polyclonal Antibody | anti-C3 antibody

Anti-C3 Antibody

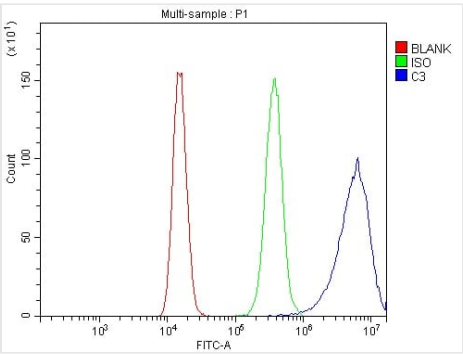
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA125523	Rabbit	Human, Mouse, Rat	ELISA, Flow Cytometry, Functional Assay, Western Blot

PRODUCT SYNONYMS

C3; Polyclonal Antibody; Anti-C3 Antibody; CPAMD1; Complement C3; C3 and PZP-like alpha-2-macroglobulin domain-containing protein 1 [Cleaved into: Complement C3 beta chain; C3-beta-c; C3bc; Complement C3 alpha chain; C3a anaphylatoxin; Acylation stimulating protein; ASP; C3adesArg; Complement C3b alpha' chain; Complement C3c alpha' chain fragment 1; Complement C3dg fragment; Complement C3g fragment; Complement C3d fragment; Complement C3f fragment; Complement C3c alpha' chain fragment 2; complement C3; anti-C3 antibody

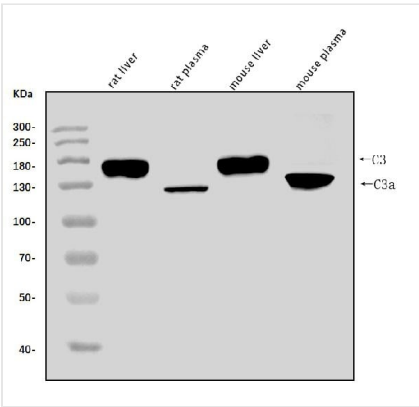
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Rabbit IgG polyclonal antibody for C3 detection.
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized. Each vial contains 4mg Trehalose, 0.9mg NaCl, 0.2mg Na2HPO4, 0.01mg NaN3.
Applicable Applications for anti-C3 antibody	ELISA (Direct ELISA), FCM/FACS (Flow Cytometry), WB (Western Blot)
Immunogen	E Coli-derived human C3 recombinant protein (Position: Q1277-E1538).
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Recommended Detection Systems	Recommended Detection Systems
Preparation and Storage	Store at -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing.



FCM/FACS (Flow Cytometry)

Figure 2. Flow Cytometry analysis of 293T cells using anti-C3 antibody (AAA125523).Overlay histogram showing 293T cells stained with AAA125523 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-C3 Antibody (AAA125523, 1μg/1x106 cells) for 30 min at 20 degree C. DyLight®488 conjugated goat anti-rabbit IgG (5-10μg/1x106 cells) was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1μg/1x106) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



WB (Western Blot)

Figure 1. Western blot analysis of C3 using anti-C3 antibody (AAA125523).Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30ug of sample under reducing conditions.Lane 1: rat liver tissue lysatesLane 2: rat plasma lysatesLane 3: mouse liver tissue lysatesLane 4: mouse plasma lysates.After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA for 50-90 minutes. Blocked the membrane with 5% Non-fat Milk/ TBS for 1. 5 hour at RT. The membrane was incubated with rabbit anti-C3 antigen affinity purified polyclonal antibody (Catalog # AAA125523) at 0. 5 μg/mL overnight at 4 degree C, then washed with TBS-0. 1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1. 5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for C3 at approximately 128KD/187KD. The expected band size for C3 is at 187KD.

ADDITIONAL INFORMATION

Related Product Information for anti-C3 antibody	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. The encoded preproprotein is proteolytically processed to generate alpha and beta subunits that form the mature protein, which is then further processed to generate numerous peptide products. The C3a peptide, also known as the C3a anaphylatoxin, modulates inflammation and possesses antimicrobial activity. Mutations in this gene are associated with atypical hemolytic uremic syndrome and age-related macular degeneration in human patients.
References	1. Ajees, A. A., Gunasekaran, K., Volanakis, J. E., Narayana, S. V. L., Kotwal, G. J., Krishna Murthy, H. M. The structure of complement C3b provides insights into complement activation and regulation. Nature 444: 221-225, 2006. Note: Retraction: Nature 532: 268 only, 2016. 2. Alper, C. A., Colten, H. R., Gear, J. S. S., Rabson, A. R., Rosen, F. S. Homozygous human C3 deficiency: the role of C3 in antibody production, C1s-induced vasopermeability, and cobra venom-induced passive hemolysis. J. Clin. Invest. 57: 222-229, 1976. 3. Alper, C. A., Colten, H. R., Rosen, S. F., Rabson, A. R., MacNab, G. M., Gear, J. S. S. Homozygous deficiency of C3 in a patient with repeated infections. Lancet 300: 1179-1181, 1972. Note: Originally Volume II.

NCBI AND UNIPROT INFORMATION

NCBI GI #	152012784
NCBI GeneID	718
UniProt Accession #	P01024; A7E236
Molecular Weight	187,148 Da
NCBI Official Full Name	Complement component 3
NCBI Official Synonym Full Names	complement component 3
NCBI Official Symbol	C3
NCBI Official Synonym Symbols	ASP; C3a; C3b; AHUS5; ARMD9; CPAMD1

NCBI Protein Information	complement C3; prepro-C3; C3a anaphylatoxin; complement component C3; complement component C3a; complement component C3b; acylation-stimulating protein cleavage product; C3 and PZP-like alpha-2-macroglobulin domain-containing protein 1
UniProt Protein Name	Complement C3
UniProt Gene Name	C3
UniProt Synonym Gene Names	CPAMD1; ASP
UniProt Entry Name	CO3_HUMAN

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://www.aaabiotech.com/polyclonal/c3-antibody-direct-elisa-flow-cytometry-western-blot-elisa/125523>