

Rabbit anti-Mouse, Rat C5 Polyclonal Antibody | anti-C5 antibody

Anti-C5 Antibody Picoband

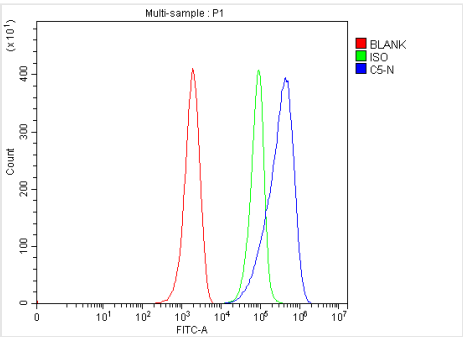
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA125968	Rabbit	Mouse, Rat	Western Blot, Flow Cytometry, Functional Assay, ELISA

PRODUCT SYNONYMS

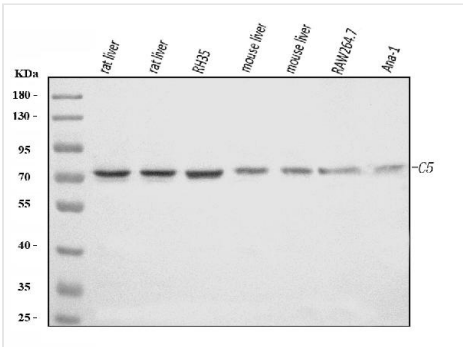
C5; Polyclonal Antibody; Anti-C5 Antibody Picoband; anti-C5 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Mouse, Rat
Clonality	Polyclonal
Isotype	Rabbit IgG
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ .
Applicable Applications for anti-C5 antibody	WB (Western Blot), FCM/FACS (Flow Cytometry), ELISA
Reconstitution	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Immunogen	E Coli-derived mouse C5 recombinant protein (Position: Q19-D294).
Preparation and Storage	Store at -20 degree C for one year from date of receipt. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for six months. Avoid repeated freezing and thawing.



FCM/FACS (Flow Cytometry)
Figure 2. Flow Cytometry analysis of ANA-1 cells using anti-C5 antibody (AAA125968). Overlay histogram showing ANA-1 cells stained with AAA125968 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-C5 Antibody (AAA125968, 1 ug/1x10⁶ cells) for 30 min at 20 degree C. DyLight488 conjugated goat anti-rabbit IgG was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1 ug/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 C5 using anti-C5 antibody (AAA125968). 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 30 ug of sample under reducing conditions. Lane 1: rat liver tissue lysates, Lane 2: rat liver tissue lysates, Lane 3: rat RH35 whole cell lysates, Lane 4: mouse liver tissue lysates, Lane 5: mouse liver tissue lysates, Lane 6: mouse RAW364.7 whole cell lysates, Lane 7: mouse ANA-1 whole cell lysates. After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA 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-C5 antigen affinity purified polyclonal antibody (#AAA125968) at 0.5 ug/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 C5 at approximately 75 kDa. The expected band size for C5 is at 188 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-C5 antibody	Complement component 5 is a protein that in humans is encoded by the C5 gene. This gene encodes a component of the complement system, a part of the innate immune system that plays an important role in inflammation, host homeostasis, and host defense against pathogens. The encoded preproprotein is proteolytically processed to generate multiple protein products, including the C5 alpha chain, C5 beta chain, C5a anaphylatoxin and C5b. The C5 protein is comprised of the alpha and beta chains, which are linked by a disulfide bridge. Cleavage of the alpha chain by a convertase enzyme results in the formation of the C5a anaphylatoxin, which possesses potent spasmogenic and chemotactic activity, and the C5b macromolecular cleavage product, a subunit of the membrane attack complex (MAC). Mice with a homozygous mutation in this gene exhibit impaired bone fracture healing and an enhanced inflammatory response in an allergic lung disease model.
Product Categories/Family for anti-C5 antibody	Primary Antibodies, Rabbit Polyclonal Antibodies

NCBI AND UNIPROT INFORMATION

NCBI GI #	6754164
NCBI GeneID	15139
NCBI Accession #	NP_034536.1
NCBI GenBank Nucleotide #	NM_010406.2
UniProt Accession #	P06684; A2AS36
NCBI Official Full Name	complement C5 preproprotein
NCBI Official Synonym Full Names	hemolytic complement
NCBI Official Symbol	Hc
NCBI Official Synonym Symbols	C5; He; C5a
NCBI Protein Information	complement C5

UniProt Protein Name	Complement C5
UniProt Gene Name	C5
UniProt Synonym Gene Names	Hc
UniProt Entry Name	CO5_MOUSE

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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/polyclonal/c5-antibody-western-blot-flow-cytometry-elisa/125968>