Complement Component 3a (C3A) Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	Complement Component 3a (C3a), Polyclonal Antibody
Full Product Name	FITC-Linked Polyclonal Antibody to Complement Component 3a (C3a)
Product Gene Name	anti-C3a antibody
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Rat
Form/Format	Supplied as solution form in 0.01M PBS, pH7.4, containing 0.05% Proclin-300, 50% glycerol.
Purity/Purification	Antigen-specific Affinity Chromatography
Concentration	500ug/ml (lot specific)
Preparation and Storage	Storage: Avoid repeated freeze/thaw cycles. Store at 4°C for frequent use. Aliquot and store at -20°C for 12 months. Stability Test: The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37oC for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition. Note: As fluorescence can photobleach when exposed to light, so the antibody must be protected from light.
Matching Pairs	Unconjugated Antibody: C3a (MBS2006260) FITC Conjugated Antibody: C3a (MBS2041737)
Matching Pairs	FITC Conjugated Antibody: C3a (MBS2041737) Immunogen: C3a (MBS2009999)
Molecular Weight	53,864 Da
OMIM	U28488 mRNA
Supply Chain Verification	Manufactured in a lab with traceable raw materials. Bulk orders can typically be prepared to the customer's specifications, please inquire.
Organism Species	Rattus norvegicus (Rat)
Source	Antibody labeling
Label	FITC
Traits	Liquid
Immunogen	Recombinant C3a (Ser671~Arg748) expressed in E.coli.
Cross Reactivity	Rat
Unconjugated Antibody	The unconjugated antibody version of this item is also available as catalog #MBS2006260
ISO Certification	Manufactured in an ISO 9001:2015 and ISO 13485:2016 Certified Laboratory.
Applications Tested/Suitable for anti-C3a antibody	WB; IHC; ICC; IF

Application Notes for anti-C3a antibody	Western blotting: 0.5-2 ug/mL;1:160-650 Immunohistochemistry: 5-20 ug/mL;1:16-65 Immunocytochemistry: 5-20 ug /mL;1:16-65 Optimal working dilutions must be determined by end user.
Related Product Information for anti-C3a antibody	MBS2041737 is an antibody targeting C3a. Also known as FITC-Linked Polyclonal Antibody to Complement Component 3a (C3a). Reactive in Rat. Host: Rabbit.
Other Notes	Small volumes of anti-C3a 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 C3a. It may not necessarily be applicable to this product.

NCBI GI #	30385606
NCBI GeneID	719
NCBI Accession #	AAP23198.1
UniProt Secondary Accession #	O43771; Q92868
UniProt Related Accession #	Q16581
NCBI Official Full Name	complement component 3a receptor 1
NCBI Official Synonym Full Names	complement C3a receptor 1
NCBI Official Symbol	C3AR1
NCBI Official Synonym Symbols	AZ3B; C3AR; HNFAG09
UniProt Protein Name	C3a anaphylatoxin chemotactic receptor
UniProt Gene Name	C3AR1
UniProt Synonym Gene Names	AZ3B; C3R1; HNFAG09; C3AR; C3a-R
NCBI Protein Information	C3a anaphylatoxin chemotactic receptor
NCBI Summary for C3a	C3a is an anaphylatoxin released during activation of the complement system. The protein encoded by this gene is an orphan G protein-coupled receptor for C3a. Binding of C3a by the encoded receptor activates chemotaxis, granule enzyme release, superoxide anion production, and bacterial opsonization. [provided by RefSeq, May 2016]
UniProt Comments for C3a	C3aR: Receptor for the chemotactic and inflammatory peptide anaphylatoxin C3a. This receptor stimulates chemotaxis, granule enzyme release and superoxide anion production. Belongs to the G-protein coupled receptor 1 family. Protein type: GPCR, family 1; Membrane protein, integral; Membrane protein, multi-pass; Receptor, GPCR Chromosomal Location of Human Ortholog: 12p13.31 Cellular Component: integral to plasma membrane; plasma membrane Molecular Function: G-protein coupled receptor activity Biological Process: blood circulation; elevation of cytosolic calcium ion concentration; G-protein coupled receptor protein signaling pathway; G-protein signaling, coupled to IP3 second messenger (phospholipase C activating); inflammatory response; leukocyte migration; regulation of complement activation
Research Articles on C3a	**1.** High C3aR1 expression is associated with acute myeloid leukemia-M2.

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