C3a-Receptor (C3AR1) Recombinant Antibody

PRODUCT OVERVIEW

Product Name	C3a-receptor (C3AR1), Recombinant Antibody
Full Product Name	Anti-C3a-receptor [3G7]
Product Gene Name	C3AR1 recombinant antibody
Product Synonym Names	Complement component receptor 1; C3AR1
Isotype	Mouse IgG1, kappa
Clone Number	3G7
Species Reactivity	Human
Purity/Purification	Protein A Affinity Purified
Specificity	Binds specifically to the 2e loop of the human C3a receptor, residues 185-193.
Preparation and Storage	Store at 4 degree C for up to 3 months. For longer storage, aliquot and store at -20 degree C.
Molecular Weight	53,864 Da
OMIM	U28488 mRNA
3D Structure	ModBase 3D Structure for Q16581
Animal-free Manufacturing Platform	The recombinant antibody is manufactured using a recombinant, mammalian HEK293-based expression platform. The manufacturing platform is animal-free and animal component-free.
Buffer Composition	PBS only with 0.02% Proclin 300.
Immunogen	The 2e loop of the C3a receptor.
Chimeric Use Statement	This reformatted mouse antibody was made using the variable domain sequences of the original mouse scFv format for improved compatibility with existing reagents, assays and techniques.
Product Categories/Family for C3AR1 recombinant antibody	Cell signalling; Immunology
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for C3AR1 recombinant antibody	ELISA (EIA), Flow Cytometry (FC/FACS)
Application Notes for C3AR1 recombinant antibody	This scFv antibody binds to the 2e loop of the human C3a receptor, a G protein-coupled receptor stimulating chemotaxis, superoxide anion generation and granule enzyme release.
Related Product Information for C3AR1 recombinant antibody	Recombinant monoclonal antibody to C3a-receptor. Manufactured using a Recombinant Platform with variable regions (i.e. specificity) from the scFv 3G7. This reformatted mouse antibody was made using the variable domain sequences of the original mouse scFv format for improved compatibility with existing reagents, assays and techniques.
Product References and Citations for C3AR1 recombinant antibody	Hawlisch et al. 2001 Site-specific anti-C3a receptor single-chain antibodies selectied by differential panning on cellulose sheets. Analytica Biochemistry 2001; 293(1):142-145 PMID:11373092
Other Notes	Small volumes of C3AR1 recombinant 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.

Searchable Terms for C3AR1 purchase	MBS488187 is a recombinant antibody targeting C3AR1. Also known as Anti-C3a-receptor [3G7]. Reactive in Human.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for C3AR1. It may not necessarily be applicable to this product.

NCBI GI #	37538305
NCBI GeneID	719
UniProt Primary Accession #	Q16581
UniProt Secondary Accession #	O43771; Q92868
UniProt Related Accession #	Q16581
NCBI Official Full Name	C3a anaphylatoxin chemotactic receptor
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
Protein Family	C3a anaphylatoxin chemotactic receptor
UniProt Gene Name	C3AR1
UniProt Synonym Gene Names	AZ3B; C3R1; HNFAG09; C3AR; C3a-R
UniProt Entry Name	C3AR_HUMAN
NCBI Protein Information	C3a anaphylatoxin chemotactic receptor
NCBI Summary for C3AR1	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 C3AR1	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 C3AR1	**1.** High C3aR1 expression is associated with acute myeloid leukemia-M2.
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