

Mouse C5aR2 Antibody | anti-C5aR2 antibody

Anti-Hu C5aR2 APC

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA129383	Mouse	Human, Non-human primates	Flow Cytometry, Functional Assay

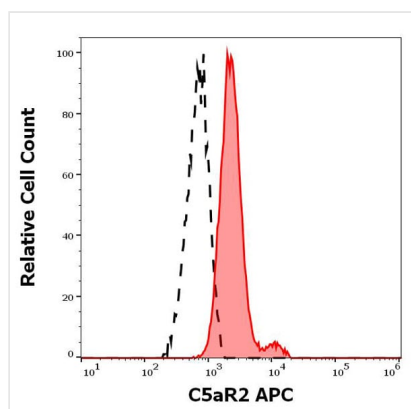
PRODUCT SYNONYMS

C5aR2; Anti-Hu C5aR2 APC; complement component 5a receptor 2; C5L2; GPR77; GPF77; anti-C5aR2 antibody

PRODUCT SPECIFICATIONS

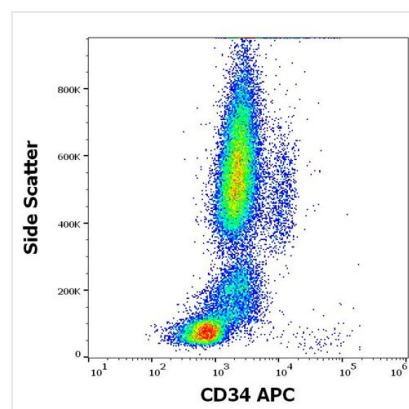
Host	Mouse
Reactivity	Human, Non-human primates
Isotype	Mouse IgG2a kappa
Clone Number	1D9-M12
Specificity	The mouse monoclonal antibody 1D9-M12 recognizes an extracellular epitope on C5aR2 (C5L2), a C5a complement receptor, which is coexpressed with C5aR1 (CD88) in neutrophils, as well as e.g. in mast cells, astrocytes, or macrophages.
Purity/Purification	Purified antibody is conjugated with activated allophycocyanin (APC) under optimum conditions and unconjugated antibody and free fluorochrome are removed by size-exclusion chromatography.
Form/Format	Stabilizing phosphate buffered saline (PBS), pH 7.4, 15 mM sodium azide
Applicable Applications for anti-C5aR2 antibody	FCM/FACS (Flow Cytometry)
Immunogen	L1.2 cells transfected with human C5aR2
Conjugation	APC
Preparation and Storage	Store at 2-8 degree C. Protect from prolonged exposure to light. Do not freeze.

IMAGES



FCM/FACS (Flow Cytometry)

Separation of human neutrophil granulocytes (red-filled) from lymphocytes (black-dashed) in flow cytometry analysis (surface staining) of human peripheral whole blood stained using anti-human C5aR2 (1D9-M12) APC antibody (10ul reagent/100ul of peripheral whole blood).



FCM/FACS (Flow Cytometry)

Flow cytometry surface staining pattern of human peripheral whole blood stained using anti-human C5aR2 (1D9-M12) APC antibody (10ul reagent/100ul of peripheral whole blood).

ADDITIONAL INFORMATION

Related Product Information for anti-C5aR2 antibody	C5aR2, also known as C5L2, is one of two receptors for C5a (anaphylatoxin). It is coexpressed with C5aR1 (CD88) in neutrophils, as well as e.g. in mast cells, astrocytes, or macrophages, and seems to have both pro-inflammatory and anti-inflammatory roles, depending on circumstances. Unlike CD88, C5aR2 is not coupled to G-protein, thus the modulatory role is more likely.
References	*Muenstermann M, Strobel L, Klos A, Wetzel RA, Woodruff TM, Kohl J, Johswich KO: Distinct roles of the anaphylatoxin receptors C3aR, C5aR1 and C5aR2 in experimental meningococcal infections. Virulence 2019 Dec;10(1):677-694., URL: https://pubmed.ncbi.nlm.nih.gov/31274379/; *Fonseca MI, McGuire SO, Counts SE, Tenner AJ: Complement activation fragment C5a receptors, CD88 and C5L2, are associated with neurofibrillary pathology. J Neuroinflammation 2013, Feb 8;10:25, URL: https://pubmed.ncbi.nlm.nih.gov/23394121/; *An LL, Gorman JV, Stephens G, Swerdlow B, Warren P, Bonnell J, Mustelin T, Fung M, Kolbeck R: Complement C5a induces PD-L1 expression and acts in synergy with LPS through Erk1/2 and JNK signaling pathways. Sci Rep. 2016 Sep 14;6:33346., URL: https://pubmed.ncbi.nlm.nih.gov/27624143/; *Spaan AN, Vrieling M, Wallet P, Badiou C, Reyes-Robles T, Ohneck EA, Benito Y, de Haas CJ, Day CJ, Jennings MP, Lina G, Vandenesch F, van Kessel KP, Torres VJ, van Strijp JA, Henry T: The staphylococcal toxins ?-haemolysin AB and CB differentially target phagocytes by employing specific chemokine receptors. Nat Commun. 2014 Nov 11;5:5438., URL: https://pubmed.ncbi.nlm.nih.gov/25384670/; *Hao J, Wang C, Yuan J, Chen M, Zhao MH: A pro-inflammatory role of C5L2 in C5a-primed neutrophils for ANCA-induced activation . PLoS One, 2013, Jun 13;8(6):e66305., URL: https://pubmed.ncbi.nlm.nih.gov/23785491/,

NCBI AND UNIPROT INFORMATION

NCBI GI #	8923873
NCBI GeneID	27202
NCBI Accession #	NP_060955.1
NCBI GenBank Nucleotide #	NM_018485.2
UniProt Accession #	Q9P296 ; B2RA09
Molecular Weight	36,080 Da
NCBI Official Full Name	C5a anaphylatoxin chemotactic receptor 2
NCBI Official Synonym Full Names	complement component 5a receptor 2
NCBI Official Symbol	C5AR2
NCBI Official Synonym Symbols	C5L2; GPF77; GPR77
NCBI Protein Information	C5a anaphylatoxin chemotactic receptor 2; G protein-coupled receptor 77; G protein-coupled receptor C5L2; C5a anaphylatoxin chemotactic receptor C5L2
UniProt Protein Name	C5a anaphylatoxin chemotactic receptor 2
UniProt Gene Name	C5AR2
UniProt Synonym Gene Names	C5L2; GPR77
UniProt Entry Name	C5AR2_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://stage.aaabiotech.com/mouse-human-primate-antibody/c5ar2/129383>