

anti-Human C3aR Antibody | anti-C3aR antibody

Anti-Hu C3aR PE

CATALOG # AAA129308	REACTIVITY Human	APPLICATIONS Flow Cytometry, Functional Assay
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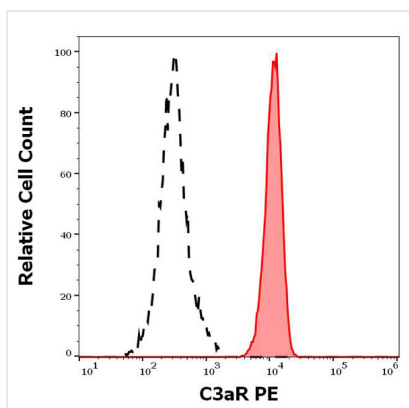
PRODUCT SYNONYMS

C3aR; Anti-Hu C3aR PE; complement C3a receptor 1; AZ3B; HNFAG09; anti-C3aR antibody

PRODUCT SPECIFICATIONS

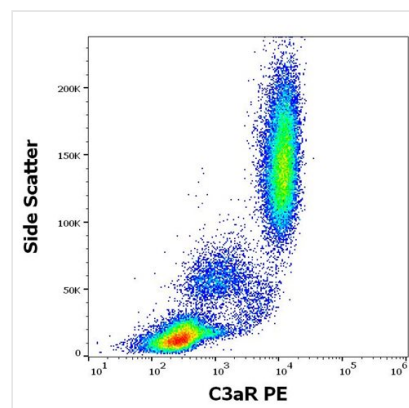
Reactivity	Human
Isotype	Mouse IgG2b
Clone Number	HC3aRZ8
Specificity	The mouse monoclonal antibody HC3aRZ8 recognizes an extracellular epitope of C3aR, a transmembrane chemotactic receptor for C3a anaphylatoxin.
Form/Format	PE Purified antibody is conjugated with R-phycoerythrin (PE) under optimum conditions. Unconjugated antibody and free fluorochrome are removed by size-exclusion chromatography. Stabilizing phosphate buffered saline (PBS), pH 7.4, 15 mM sodium azide
Applicable Applications for anti-C3aR antibody	FCM/FACS (Flow Cytometry)
Immunogen	Human C3aR transfectants
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 C3aR (HC3aRZ8) PE antibody (10 μ l reagent / 100 μ l of peripheral whole blood).



FCM/FACS (Flow Cytometry)

Flow cytometry surface staining pattern of human peripheral whole blood stained using anti-human C3aR (HC3aRZ8) PE antibody (10 μ l reagent / 100 μ l of peripheral whole blood).

ADDITIONAL INFORMATION

Related Product Information for anti-C3aR antibody	C3aR is a 7TM transmembrane protein associated with G proteins, and serves as a receptor for C3a complement fragment. It is expressed mainly on neutrophils, mast cells, basophils, eosinophils, dendritic cells, monocytes, and macrophages. Upon detection of its ligand, the activated C3aR signaling cascade results in degranulation, superoxide production, and chemotaxis.
References	*Abdelbaset-Ismail A, Borkowska-Rzeszotek S, Kubis E, Bujko K, Brze?niakiewicz-Janus K, Bolkun L, Kloczko J, Moniuszko M, Basak GW, Wiktor-Jedrzejczak W, Ratajczak MZ: Activation of the complement cascade enhances motility of leukemic cells by downregulating expression of HO-1. Leukemia 2017 Feb;31(2):446-458., URL: https://pubmed.ncbi.nlm.nih.gov/27451975/,*Larsen LF, Juel-Berg N, Hansen A, Hansen KS, Mills EN, van Ree R, R�dinger M, Poulsen LK, Jensen BM: No difference in human mast cells derived from peanut allergic versus non-allergic subjects. Immun Inflamm Dis. 2018 Dec;6(4):416-427, URL: https://pubmed.ncbi.nlm.nih.gov/29992767/,*Reis ES, Chen H, Sfyroera G, Monk PN, K�hl J, Ricklin D, Lambris JD: C5a receptor-dependent cell activation by physiological concentrations of desarginated C5a: insights from a novel label-free cellular assay. J Immunol. 2012 Nov 15;189(10):4797-805., URL: https://pubmed.ncbi.nlm.nih.gov/23041570/,*Soruri A, Kiafard Z, Dettmer C, Riggert J, K�hl J, Zwirner J: IL-4 down-regulates anaphylatoxin receptors in monocytes and dendritic cells and impairs anaphylatoxin-induced migration in vivo. J Immunol. 2003 Mar 15;170(6):3306-14., URL: https://pubmed.ncbi.nlm.nih.gov/12626590/,*Kiafard Z, Tschernig T, Schweyer S, Bley A, Neumann D, Zwirner J: Use of monoclonal antibodies to assess expression of anaphylatoxin receptors in tubular epithelial cells of human, murine and rat kidneys. Immunobiology 2007;212(2):129-39., URL: https://pubmed.ncbi.nlm.nih.gov/17336833/,

NCBI AND UNIPROT INFORMATION

NCBI GI #	30385606
NCBI GeneID	719
UniProt Accession #	Q16581; O43771; Q92868
Molecular Weight	53,864 Da
NCBI Official Full Name	complement component 3a receptor 1
NCBI Official Synonym Full Names	complement component 3a receptor 1
NCBI Official Symbol	C3AR1
NCBI Official Synonym Symbols	AZ3B; C3AR; HNFAG09
NCBI Protein Information	C3a anaphylatoxin chemotactic receptor; C3a-R; complement component 3 receptor 1
UniProt Protein Name	C3a anaphylatoxin chemotactic receptor
UniProt Gene Name	C3AR1
UniProt Synonym Gene Names	AZ3B; C3R1; HNFAG09; C3AR; C3a-R
UniProt Entry Name	C3AR_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.