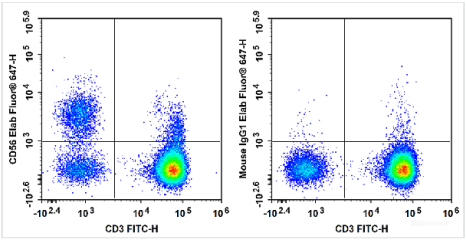
CD56 Antibody – Mouse Monoclonal

PRODUCT OVERVIEW

Product Name	CD56, Monoclonal Antibody
Full Product Name	Fluor 647 Anti-Human CD56 Antibody [B-A19]
Product Gene Name	anti-CD56 antibody
Product Synonym Names	Neural cell adhesion molecule 1,NCAM1,N-CAM-1,NCAM-1,NCAM
Clonality	Monoclonal
Isotype	Mouse IgG1, kappa
Clone Number	B-A19
Host	Mouse
Species Reactivity	Human
Form/Format	Liquid
Preparation and Storage	Store at 2~8 degree C and protected from prolonged exposure to light. Do not freeze.
Matching Pairs	Antibody: CD56 (MBS2572147) Isotype Control: IgG1 Clone #MOPC-21 (MBS2557741)
Molecular Weight	376
OMIM	601268
3D Structure	ModBase 3D Structure for P51677
Conjugation	Fluor 647
Buffer	PBS with 0.05% Proclin300, 1% Protein protectant
Cellular Localization	Membrane
Product Categories/Family for anti-CD56 antibody	FC Antibody
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-CD56 antibody	Flow Cytometry (FC/FACS)
Related Product Information for anti-CD56 antibody	CD56 is a single transmembrane glycoprotein also known as NCAM (neural cell adhesion molecule), Leu-19, or NKH1. It is a member of the Ig superfamily. The 140 kD isoform is expressed on NK and NKT cells. CD56 is also expressed in the brain (cerebellum and cortex) and at neuromuscular junctions. Certain large granular lymphocyte (LGL) leukemias, small-cell lung carcinomas, neuronal derived tumors, myelomas, and myeloid leukemias also express CD56. CD56 plays a role in homophilic and heterophilic adhesion via binding to itself or heparan sulfate.
Other Notes	Small volumes of anti-CD56 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 CD56 purchase	MBS2572147 is an antibody targeting CD56. Also known as Fluor 647 Anti-Human CD56 Antibody [B-A19]. Reactive in Human. Host: Mouse.



Testing Data of anti-CD56 antibody
Human peripheral blood lymphocytes are stained with FITC Anti-Human CD3 Antibody and Fluor 647 Anti-Human CD56 Antibody (Left). Lymphocytes are stained with FITC Anti-Human CD3 Antibody and Fluor 647 Mouse IgG1, kappa Isotype Control (Right).

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CD56. It may not necessarily be applicable to this product.

NCBI GI #	1705892
NCBI GeneID	1232
NCBI Accession #	P51677.1
UniProt Primary Accession #	P51677
UniProt Secondary Accession #	Q15748; Q2YDB9; Q86WD2; Q8TDP6; Q9ULY8; B3KVQ1; F5GWL6
UniProt Related Accession #	P51677
NCBI Official Full Name	C-C chemokine receptor type 3
NCBI Official Synonym Full Names	chemokine (C-C motif) receptor 3
NCBI Official Symbol	CCR3
NCBI Official Synonym Symbols	CKR3; CD193; CMKBR3; CC-CKR-3
UniProt Protein Name	C-C chemokine receptor type 3
UniProt Synonym Protein Names	Eosinophil eotaxin receptor; CD_antigen: CD193
UniProt Gene Name	CCR3
UniProt Synonym Gene Names	CMKBR3; C-C CKR-3; CC-CKR-3; CCR-3; CCR3; CKR3
UniProt Entry Name	CCR3_HUMAN
NCBI Protein Information	C-C chemokine receptor type 3; CCR-3; C-C CKR-3; b-chemokine receptor; CC chemokine receptor 3; eosinophil eotaxin receptor; eosinophil CC chemokine receptor 3
NCBI Summary for CD56	The protein encoded by this gene is a receptor for C-C type chemokines. It belongs to family 1 of the G protein-coupled receptors. This receptor binds and responds to a variety of chemokines, including eotaxin (CCL11), eotaxin-3 (CCL26), MCP-3 (CCL7), MCP-4 (CCL13), and RANTES (CCL5). It is highly expressed in eosinophils and basophils, and is also detected in TH1 and TH2 cells, as well as in airway epithelial cells. This receptor may contribute to the accumulation and activation of eosinophils and other inflammatory cells in the allergic airway. It is also known to be an entry co-receptor for HIV-1. This gene and seven other chemokine receptor genes form a chemokine receptor gene cluster on the chromosomal region 3p21. Alternatively spliced transcript variants have been described. [provided by RefSeq, Sep 2009]

UniProt Comments for CD56	CCR3: Receptor for a C-C type chemokine. Binds to eotaxin, eotaxin-3, MCP-3, MCP-4, RANTES and MIP-1 delta. Subsequently transduces a signal by increasing the intracellular calcium ions level. Alternative coreceptor with CD4 for HIV-1 infection. Belongs to the G-protein coupled receptor 1 family. Protein type: GPCR, family 1; Membrane protein, integral; Receptor, cytokine; Receptor, GPCR; Motility/polarity/chemotaxis; Membrane protein, multi-pass Chromosomal Location of Human Ortholog: 3p21.3 Cellular Component: integral to plasma membrane; plasma membrane Molecular Function: protein binding; C-C chemokine receptor activity; chemokine receptor activity Biological Process: G-protein signaling, coupled to cAMP nucleotide second messenger; positive regulation of angiogenesis; elevation of cytosolic calcium ion concentration; viral reproduction; cellular defense response; positive regulation of endothelial cell proliferation; inflammatory response; chemotaxis; cell adhesion
Research Articles on CD56	**1.** In vitro chemotaxis assay indicates dominant role of RANTES and IP-10 in the selective recruitment of CXCR3(+)CCR5(+)cells at the tubercular pathologic sites.
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