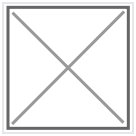
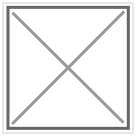
CD56 Antibody – Mouse

PRODUCT OVERVIEW

Product Name	CD56, Antibody
Full Product Name	Anti-Hu CD56 APC
Product Gene Name	anti-CD56 antibody
Product Synonym Gene Name	NCAM1
Product Synonym Names	neural cell adhesion molecule 1; NCAM1; NCAM-1; MSK39
Isotype	IgG2a
Clone Number	MEM-188
Host	Mouse
Species Reactivity	Non-human primates, Human
Form/Format	Stabilizing phosphate buffered saline (PBS) solution containing 15 mM sodium azide
Purity/Purification	The purified antibody is conjugated with allophycocyanin (APC) under optimum conditions. The conjugate is purified by size-exclusion chromatography.
Specificity	The antibody MEM-188 reacts with an extracellular epitope on a 180 kDa isoform of CD56 (NCAM) expressed in leukocytes. It has been suggested that the antibody MEM-188 could react with rhesus monkey lymphocytes. Reactivity with other NCAM isoforms has not been tested.
Preparation and Storage	Store in the dark at 2-8 degree C. Do not freeze. Avoid prolonged exposure to light.
Matching Pairs	Unconjugated Antibody: CD56 Clone #MEM-188 (MBS1801105) APC Conjugated Antibody: CD56 Clone #MEM-188 (MBS1801106)
OMIM	116930
3D Structure	ModBase 3D Structure for P13591
Immunogen	KG-1 human acute myelogenous leukemia cell line
Conjugation	APC
Applications Tested/Suitable for anti-CD56 antibody	Flow Cytometry (FC/FACS)
Application Notes for anti-CD56 antibody	FC/FACS: QC tested
Related Product Information for anti-CD56 antibody	CD56 (NCAM, neural cell adhesion molecule) is a transmembrane glycoprotein of immunoglobulin family serving as adhesive molecule which is ubiquitously expressed in nervous system, usually as 120 kDa, 140 kDa or 180 kDa isoform, and it is also found on T cells and NK cells. Polysialic modification results in reduction of CD56-mediated cell adhesion and is involved in cell migration, axonal growth, pathfinding and synaptic plasticity. CD56 is a widely used neuroendocrine marker with a high sensitivity for neuroendocrine tumours and ovarian granulosa cell tumours.
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	MBS1801106 is an antibody targeting CD56. Also known as Anti-Hu CD56 APC. Reactive in Non-human primates, Human. Host: Mouse.



Flow Cytometry (FC/FACS) of anti-CD56 antibody
Flow cytometry surface staining pattern of human peripheral whole blood stained using anti-human CD56 (MEM-188) APC antibody (10 ul reagent / 100 ul of peripheral whole blood).



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ADDITIONAL DETAILS

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

NCBI GI #	205830665
NCBI GeneID	4684
NCBI Accession #	P13591.3
UniProt Primary Accession #	P13591
UniProt Related Accession #	P13591
NCBI Official Full Name	Neural cell adhesion molecule 1
NCBI Official Synonym Full Names	neural cell adhesion molecule 1
NCBI Official Symbol	NCAM1
NCBI Official Synonym Symbols	CD56; NCAM; MSK39
UniProt Protein Name	Neural cell adhesion molecule 1
UniProt Synonym Protein Names	CD_antigen: CD56
UniProt Gene Name	NCAM1
UniProt Synonym Gene Names	NCAM; N-CAM-1; NCAM-1
UniProt Entry Name	NCAM1_HUMAN
NCBI Protein Information	neural cell adhesion molecule 1
NCBI Summary for CD56	This gene encodes a cell adhesion protein which is a member of the immunoglobulin superfamily. The encoded protein is involved in cell-to-cell interactions as well as cell-matrix interactions during development and differentiation. The encoded protein has been shown to be involved in development of the nervous system, and for cells involved in the expansion of T cells and dendritic cells which play an important role in immune surveillance. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jun 2011]

UniProt Comments for CD56	NCAM1: This protein is a cell adhesion molecule involved in neuron-neuron adhesion, neurite fasciculation, outgrowth of neurites, etc. 6 isoforms of the human protein are produced by alternative splicing. Protein type: Membrane protein, GPI anchor; Membrane protein, integral; Cell adhesion; Motility/polarity/chemotaxis Chromosomal Location of Human Ortholog: 11q23.1 Cellular Component: Golgi membrane; cell surface; membrane; integral to membrane; plasma membrane; external side of plasma membrane Molecular Function: identical protein binding Biological Process: axon guidance; extracellular matrix organization and biogenesis; cytokine and chemokine mediated signaling pathway; cell adhesion
Research Articles on CD56	**1.** A20 participates in the pathogenesis of AS by negatively regulating CD56(bright) NK cells.
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Online datasheet: https://www.mybiosource.com/human-antibody/cd56/1801106