

Mouse anti-Human CD56 Monoclonal Antibody | anti-CD56 antibody

Monoclonal Antibody to CD56 (Clone: 123C3)

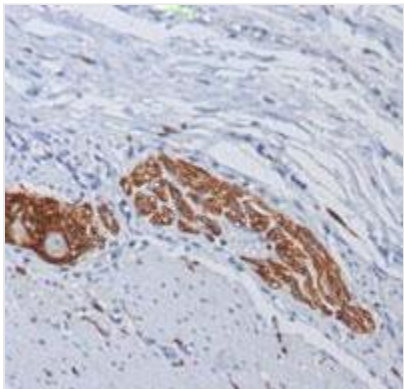
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA78429	Mouse	Human	Flow Cytometry, Functional Assay, Immunohistochemistry

PRODUCT SYNONYMS

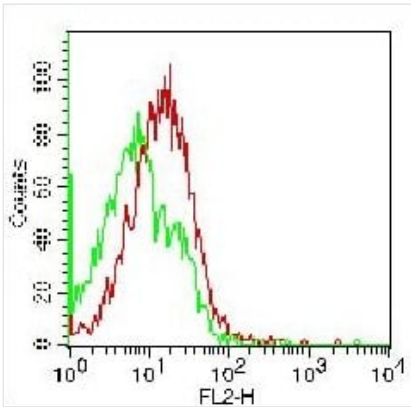
CD56; Monoclonal Antibody; Monoclonal Antibody to CD56 (Clone: 123C3); NCAM1; NCAM; Neural cell adhesion molecule 1; anti-CD56 antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG1 Kappa
Clone Number	123C3
Purity/Purification	Purified Protein G Chromatography
Form/Format	100 ug in 200 ul PBS containing 0.05% BSA and 0.05% sodium azide. Sodium azide is highly toxic.
Sequence Length	848
Applicable Applications for anti-CD56 antibody	FCM/FACS (Flow Cytometry), IHC (Immunohistochemistry)
Antigen	CD56
Immunogen Information	The immunogen for this CD56 antibody was a membrane preparation of a small cell lung carcinoma.
Conjugation	Unconjugated
Preparation and Storage	Store the antibody at 4 degree C, stable for 6 months. For long-term storage, store at -20 degree C. Avoid repeat freezing and thawing



IHC (Immunohiostchemistry)
Fig: 2 Immunohistochemical analysis of CD56 in human colon ganglion using CD56 antibody (Clone: 123C3) at 1: 200 dilution.



FCM/FACS (Flow Cytometry)
Fig: 1 Flow Cytometric analysis of hCD56 on human PBMC, lymphocytes using 1 ug/10^6 cells. Green represents isotype control; red represents anti-hCD56 antibody (10-7504). Goat anti-mouse PE conjugated secondary antibody was used.

ADDITIONAL INFORMATION

Related Product Information for anti-CD56 antibody	CD56, a 175-220KDa glycoprotein, is a member of the Ig super family. It is expressed as three major isoforms and consists of five Ig-like domains and two Fibronectin-type III domains in the extracellular region. The 135kDa isoform is the basic molecule which is glycosylated or sialylated to produce the mature species. CD56 is widely expressed in nervous system, on NK cells and a specific set of Tcells. CD56+ NK cells and Tcells are unique in their ability to mediate cell-mediated cytotoxicity against certain tumor cell targets without MHC restriction. Other physiological functions of CD56 include mediating cell adhesion through homophilic and heterophilic interaction and activating intracellular signaling pathways resulting in neutrite extension and fasciculation, migration and synapses formation in brain. CD56 is also vital for neuronal development and plasticity in adult brain. It is used as a tumor marker in various cancers such as NK lymphomas and Merkel cell carcinoma. NCAM is expressed on most neuroectodermal derived lines, tissues, and neoplasms such as retinoblastoma, medulloblastoma, astrocytoma, and neuroblastoma. It is also expressed on some mesodermally derived tumors such as rhabdomyosarcoma and also on natural killer cells.
Product Categories/Family for anti-CD56 antibody	Cancer Marker

NCBI AND UNIPROT INFORMATION

NCBI GI #	94420689
NCBI GeneID	4684
NCBI Accession #	NP_000606.3
NCBI GenBank Nucleotide #	NM_000615.6
UniProt Accession #	P13591; P13592; P13593; Q05C58; Q15829; Q16180; Q16209; Q59FL7; Q86X47; Q96CJ3; A8K8T8
Molecular Weight	40,760 Da
NCBI Official Full Name	neural cell adhesion molecule 1 isoform 1
NCBI Official Synonym Full Names	neural cell adhesion molecule 1
NCBI Official Symbol	NCAM1
NCBI Official Synonym Symbols	CD56; NCAM; MSK39
NCBI Protein Information	neural cell adhesion molecule 1
UniProt Protein Name	Neural cell adhesion molecule 1
UniProt Gene Name	NCAM1

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/monoclonal/cd56-antibody-clone-123c3-flow-cytometry-immunohistochemistry-elisa/78429>