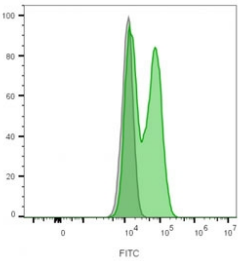
CD56 Antibody for FACS [clone NCAM1/2217R] (V7442)

Catalog No.	Formulation	Size
V7442-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V7442-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V7442SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug
V7442IHC-7ML	Prediluted in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide; *For IHC use only*	7 ml

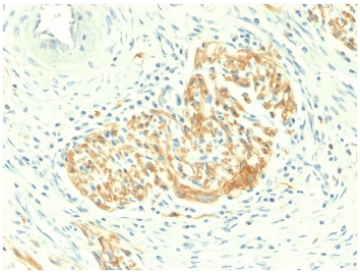
Recombinant RABBIT MONOCLONAL

Bulk quote request

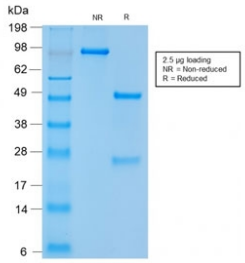
Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Rabbit
Clonality	Recombinant Rabbit Monoclonal
Isotype	Rabbit IgG, kappa
Clone Name	NCAM1/2217R
Purity	Protein A affinity chromatography
UniProt	P13591
Localization	Cell surface, cytoplasmic
Applications	Immunohistochemistry (FFPE) : 1-2ug/ml for 30 min at RT Flow Cytometry : 1-2ug/million cells
Limitations	This CD56 antibody is available for research use only.



CD56 Antibody for FACS (clone NCAM1/2217R). Flow cytometry analysis of lymphocyte-gated human PBM cells demonstrates a clear rightward fluorescence shift in cells stained with CD56 antibody (green) compared with unstained cells (gray). The increased FITC signal corresponds to detection of Neural cell adhesion molecule 1 (NCAM1), also known as CD56, a cell surface marker expressed on natural killer cells and subsets of activated T lymphocytes. The distinct separation between stained and unstained populations indicates specific labeling of CD56-positive lymphocytes and supports the use of this antibody for flow cytometry identification and characterization of NCAM1-expressing immune cell populations.



IHC staining of FFPE human colon carcinoma with CD56 antibody (clone NCAM1/2217R). HIER: boil tissue sections in pH6, 10mM citrate buffer, for 10-20 min followed by cooling at RT for 20 min.



SDS-PAGE analysis of purified, BSA-free recombinant CD56 antibody (clone NCAM1/2217R) as confirmation of integrity and purity.

Description

Neural cell adhesion molecule 1 (NCAM1), also known as CD56, is a membrane glycoprotein encoded by the NCAM1 gene and is widely recognized as a cell surface marker expressed on several immune and neural cell populations. CD56 Antibody for FACS (clone NCAM1/2217R) is designed for flow cytometry detection of NCAM1 and enables characterization of CD56-positive cells within heterogeneous cell suspensions. Flow cytometry analysis of CD56 is commonly used to identify natural killer cell populations and evaluate immune cell subsets based on surface marker expression.

CD56 NCAM antibody, also referred to as NCAM1 antibody or Neural cell adhesion molecule antibody in the literature, detects a cell adhesion molecule belonging to the immunoglobulin superfamily. Because NCAM1 is localized to the plasma membrane, CD56 Antibody for FACS allows researchers to measure cell surface expression levels on individual cells using fluorescence-based flow cytometry methods. This approach enables rapid identification and quantification of CD56-positive cells in peripheral blood mononuclear cell preparations and other mixed cell populations.

Flow cytometry is particularly well suited for evaluating cell surface markers such as NCAM1 because large numbers of individual cells can be analyzed for fluorescence intensity following antibody labeling. Using CD56 antibody staining, researchers can distinguish CD56-positive lymphocytes from other immune cell populations and assess shifts in expression under different biological conditions. CD56 is most prominently expressed on natural killer cells and subsets of activated T cells, making it a widely used marker for immune cell phenotyping and functional studies.

In addition to immune cells, NCAM1 expression has been reported in neural and neuroendocrine cell types where it participates in cell adhesion, migration, and intercellular signaling. Flow cytometry detection of NCAM1 can therefore also be applied in studies involving neural lineage cells, tumor-derived cell lines, or models investigating neuroendocrine differentiation. Measurement of CD56 expression provides insight into cell identity and functional state in a variety of

experimental systems.

CD56 Antibody for FACS (clone NCAM1/2217R) enables detection of Neural cell adhesion molecule / NCAM1 on the cell surface in flow cytometry experiments. This recombinant rabbit monoclonal antibody supports analysis of CD56-positive cell populations and provides a useful tool for research investigating immune cell phenotyping, NK cell markers, and NCAM-mediated cell adhesion mechanisms.

Application Notes

The optimal dilution of the CD56 antibody for FACS should be determined by the researcher.

1. The prediluted format is supplied in a dropper bottle and is optimized for use in IHC. After epitope retrieval step (if required), drip mAb solution onto the tissue section and incubate at RT for 30 min.

Immunogen

A full length recombinant human protein was used as the immunogen for this recombinant CD56 antibody.

Storage

Store the CD56 antibody at 2-8oC (with azide) or aliquot and store at -20oC or colder (without azide).

Alternate Names

NCAM1 antibody, Neural cell adhesion molecule antibody, NK cell marker CD56 antibody, CD56 cell surface marker antibody, NCAM antibody