

Datasheet for ABIN94073
anti-CD33 antibody (Biotin)**2** Images**1** Publication[Go to Product page](#)

Overview

Quantity:	0.1 mg
Target:	CD33
Reactivity:	Human, Non-Human Primate
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This CD33 antibody is conjugated to Biotin
Application:	Flow Cytometry (FACS)

Product Details

Immunogen:	NFMY-9s human cell line
Clone:	HIM3-4
Isotype:	IgG1
Specificity:	The antibody HIM3-4 reacts with an extracellular epitope of CD33, a 67 kDa type I transmembrane glycoprotein (immunoglobulin superfamily) expressed on myeloid progenitors, monocytes, granulocytes, dendritic cells and mast cells, it is absent on platelets, lymphocytes, erythrocytes and hematopoietic stem cells.
Cross-Reactivity (Details):	Human, Non-Human Primates
Purification:	Purified antibody is conjugated with biotin LC-NHS ester under optimum conditions and unconjugated antibody and free biotin are removed by size-exclusion chromatography.

Target Details

Target:	CD33
Alternative Name:	CD33 (CD33 Products)
Background:	CD33 Molecule,CD33 is a transmembrane protein of the sialic acid-binding immunoglobulin-like lectin (Siglec) family. It belongs to the immunoreceptor tyrosine-based inhibitory motif (ITIM)-containing molecules able of recruiting protein tyrosine phosphatases SHP-1 and SHP-2 to signal assemblies, these ITIMs are also used for ubiquitin-mediated removal of the receptor from the cell surface. CD33 is expressed on cells of myelomonocytic lineage, binds sialic acid residues in N- and O-glycans on cell surfaces, and is a therapeutic target for acute myeloid leukemia.,SIGLEC3, p67
Gene ID:	945
UniProt:	P20138

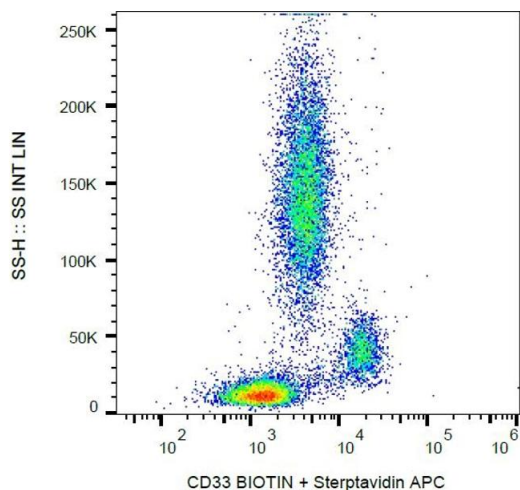
Application Details

Application Notes:	Flow cytometry: Recommended dilution: 1-12 µg/mL
Comment:	The purified antibody is conjugated with Biotin-LC-NHS under optimum conditions. The reagent is free of unconjugated biotin.
Restrictions:	For Research Use only

Handling

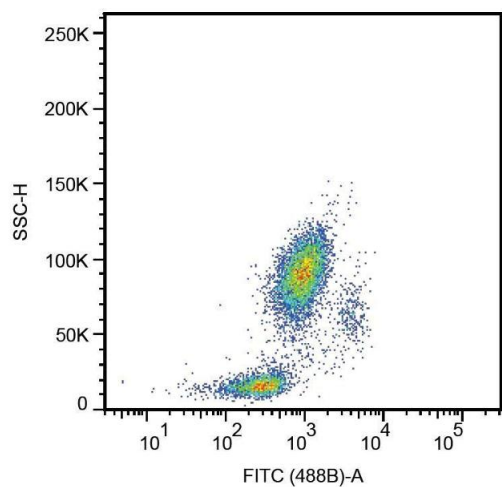
Concentration:	1 mg/mL
Buffer:	Phosphate buffered saline (PBS), pH 7.4, 15 mM sodium azide
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Do not freeze. Avoid prolonged exposure to light.
Storage:	4 °C
Storage Comment:	Store at 2-8°C. Do not freeze.

Product cited in: McCormack, Muji?, Osdal, Bruserud, Gjertsen: "Multiplexed mAbs: a new strategy in preclinical time-domain imaging of acute myeloid leukemia." in: **Blood**, Vol. 121, Issue 7, pp. e34-42, (2013) ([PubMed](#)).



Flow Cytometry

Image 1. Flow cytometry analysis (surface staining) of human peripheral blood leukocytes with anti-human CD33 (HIM3-4) biotin / streptavidin-APC.



Flow Cytometry

Image 2. Surface staining of human peripheral blood leukocytes with anti-human CD33 (HIM3-4) FITC.