

Product datasheet

PE/Cy5® Anti-CD33 antibody [HIM3-4] ab169823

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Overview

Product name	PE/Cy5® Anti-CD33 antibody [HIM3-4]
Description	PE/Cy5® Mouse monoclonal [HIM3-4] to CD33
Host species	Mouse
Conjugation	PE/Cy5®. Ex: 496nm, Em: 670nm
Tested applications	Suitable for: Flow Cyt
Species reactivity	Reacts with: Human
Immunogen	The details of the immunogen for this antibody are not available.
Positive control	Human normal human peripheral blood cells
General notes	<p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C.
Storage buffer	pH: 7.2 Preservative: 0.09% Sodium azide
Purity	Protein G purified
Clonality	Monoclonal
Clone number	HIM3-4
Isotype	IgG1
Light chain type	kappa

Applications

The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab169823 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
Flow Cyt		Use 5µl for 10 ⁶ cells. ab67435 - Mouse monoclonal IgG1, is suitable for use as an isotype control with this antibody.

Target

Function

Putative adhesion molecule of myelomonocytic-derived cells that mediates sialic-acid dependent binding to cells. Preferentially binds to alpha-2,6-linked sialic acid. The sialic acid recognition site may be masked by cis interactions with sialic acids on the same cell surface. In the immune response, may act as an inhibitory receptor upon ligand induced tyrosine phosphorylation by recruiting cytoplasmic phosphatase(s) via their SH2 domain(s) that block signal transduction through dephosphorylation of signaling molecules. Induces apoptosis in acute myeloid leukemia (in vitro).

Tissue specificity

Monocytic/myeloid lineage cells.

Sequence similarities

Belongs to the immunoglobulin superfamily. SIGLEC (sialic acid binding Ig-like lectin) family. Contains 1 Ig-like C2-type (immunoglobulin-like) domain. Contains 1 Ig-like V-type (immunoglobulin-like) domain.

Domain

Contains 2 copies of a cytoplasmic motif that is referred to as the immunoreceptor tyrosine-based inhibitor motif (ITIM). This motif is involved in modulation of cellular responses. The phosphorylated ITIM motif can bind the SH2 domain of several SH2-containing phosphatases.

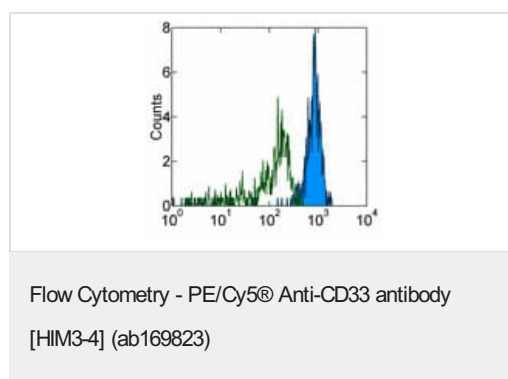
Post-translational modifications

Phosphorylation of Tyr-340 is involved in binding to PTPN6 and PTPN11. Phosphorylation of Tyr-358 is involved in binding to PTPN6.

Cellular localization

Cell membrane.

Images



Flow cytometric analysis of normal human peripheral blood cells labeling CD33 with ab169823 at 5µl/10⁵-10⁶ cells (filled histogram) or PE-Cy5 Mouse IgG1 K Isotype Control (open histogram). Cells in the monocyte gate were used for analysis.

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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