

DATASHEET

CD33 Mouse Monoclonal Antibody(C2598)

CAT. NO. AMA02210

KEY FEATURES

Target	CD33	Source / Host	Mouse
Reactivity	Human	Clonality	Monoclonal
Applications	WB, IHC, FC	Conjugation	Unconjugated
Form / Buffer	Mouse IgG1. Liquid in PBS, pH 7.3, 30% glycerol, and 0.01% sodium azide.	Storage	at-20°C

BACKGROUND

Sialic-acid-binding immunoglobulin-like lectin (Siglec) that plays a role in mediating cell-cell interactions and in maintaining immune cells in a resting state that plays a role in mediating cell-cell interactions and in maintaining immune cells in a resting state . Preferentially recognizes and binds alpha-2,3- and more avidly alpha-2,6-linked sialic acid-bearing glycans . Upon engagement of ligands such as C1q or sialylated glycoproteins, two immunoreceptor tyrosine-based inhibitory motifs (ITIMs) located in CD33 cytoplasmic tail are phosphorylated by Src-like kinases such as LCK . These phosphorylations provide docking sites for the recruitment and activation of protein-tyrosine phosphatases PTPN6/SHP-1 and PTPN11/SHP-2 .

APPLICATION

To ensure optimal assay performance, AREX recommends conducting reagent titration tailored to each testing system for optimal detection results.

WB	1:500 - 1:1000
IHC	1:100 - 1:500
FC	1:100 - 1:200

*Results are sample-specific. Please refer to your local assay conditions and test parameters for reference.

PRODUCT OVERVIEW

Description	Mouse monoclonal to CD33
Specificity	Recognizes endogenous levels of CD33 protein
Antibody Type	Primary antibody
Immunogen	Recombinant fusion protein of human CD33 expressed in E. Coli
Purification	This antibody is purified through a protein G column.
Molecular Weight	Predicted: 40 kD; Observed: 80 kD kD
Form/Buffer	Mouse IgG1. Liquid in PBS, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Alternative Names	SIGLEC3; Myeloid cell surface antigen CD33; SialIC, acid-binding Ig-like lectin 3; Siglec-3; gp67; CD33
Gene Symbol	CD33
Entrez Gene	945(Human)
SwissProt	P20138(Human)

*AREX continuously optimizes our products. Webpage content may not reflect the latest updates. For inquiries, please contact info@arexbio.com or your local distributor.

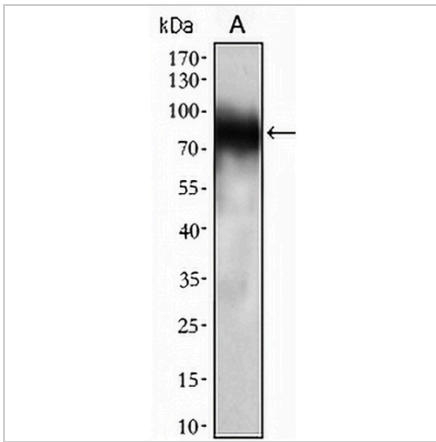
*Clone Number, Reactivity, Source/Host and Clonality can be found in the product name and Key Features section above.

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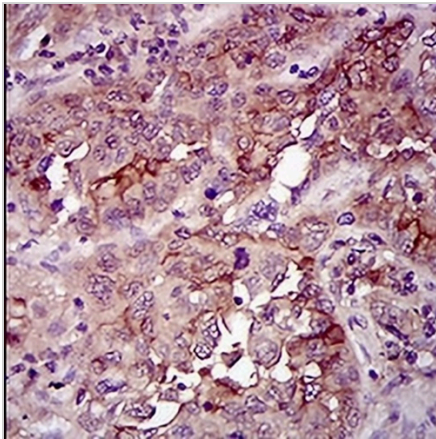
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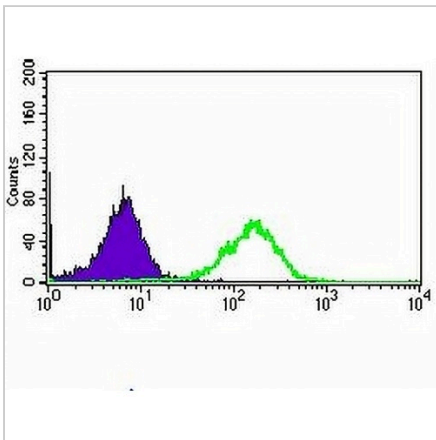
DATA



Western blot analysis of CD33 expression in THP1 (A) whole cell lysates. (Predicted band size: 40 kD; Observed band size: 80 kD)



Immunohistochemical analysis of CD33 staining in human endometrium formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.



Flow cytometric analysis of HepG2 cells using Anti-CD33 Antibody (green) and negative control (red).

STORAGE

Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.

NOTE

For Research Use Only. Not for diagnostic, therapeutics, prophylactic or in vivo use.