

For Research Use Only

# CD33 Monoclonal antibody

Catalog Number: 67135-1-Ig **1 Publications**



## Basic Information

<b>Catalog Number:</b> 67135-1-Ig	<b>GenBank Accession Number:</b> BC028152	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 150ul , Concentration: 2000 µg/ml by Nanodrop and 1000 µg/ml by Bradford method using BSA as the standard;	<b>GeneID (NCBI):</b> 945	<b>CloneNo.:</b> 1B2E5
<b>Source:</b> Mouse	<b>UNIPROT ID:</b> P20138	<b>Recommended Dilutions:</b> WB 1:1000-1:6000 IHC 1:500-1:2000 IF/ICC 1:200-1:800
<b>Isotype:</b> IgG2a	<b>Full Name:</b> CD33 molecule	
<b>Immunogen Catalog Number:</b> AG11402	<b>Calculated MW:</b> 364 aa, 40 kDa	
	<b>Observed MW:</b> 67-70 kDa	

## Applications

<b>Tested Applications:</b> WB, IF, IHC, ELISA	<b>Positive Controls:</b> WB : THP-1 cells, HL-60 cells
<b>Cited Applications:</b> IF	<b>IHC :</b> human spleen tissue,
<b>Species Specificity:</b> Human	<b>IF/ICC :</b> THP-1 cells,
<b>Cited Species:</b> human	
<b>Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0</b>	

## Background Information

CD33, also referred to as Siglec-3, is a 67-kDa glycosylated transmembrane protein of sialic acid-binding immunoglobulin-like lectin (siglec) family. CD33 is expressed on monocytes, myeloid progenitors, granulocytes, mast cells, some T cells. It may mediate cell-to-cell adhesion and act as a receptor that inhibits the proliferation of normal and leukemic myeloid cells.

## Notable Publications

Author	Pubmed ID	Journal	Application
Fenge Li	38841570	Front Med (Lausanne)	IF

## Storage

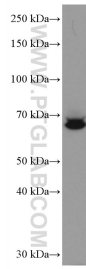
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

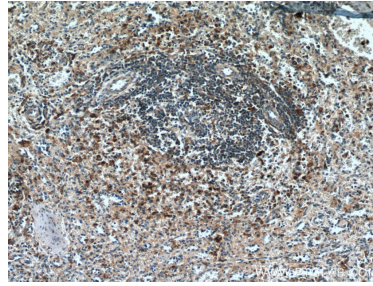
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: proteintech@ptglab.com  
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

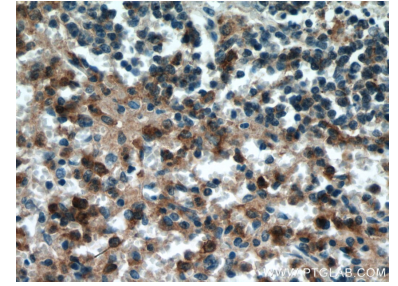
## Selected Validation Data



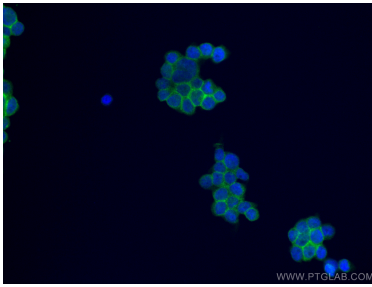
THP-1 cells were subjected to SDS PAGE followed by western blot with 67135-1-Ig (CD33 antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human spleen tissue slide using 67135-1-Ig (CD33 antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human spleen tissue slide using 67135-1-Ig (CD33 antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed THP-1 cells using CD33 antibody (67135-1-Ig, Clone: 1B2E5 ) at dilution of 1:400 and CoraLite®488-Conjugated Goat Anti-Mouse IgG(H+L).