

## Product datasheet for **TA386506**

### CD33 Mouse Monoclonal Antibody [Clone ID: M195]

#### Product data:

Product Type:	Primary Antibodies
Clone Name:	M195
Applications:	FC, IF, R
Reactivity:	Human
Host:	Mouse
Isotype:	IgG2a, kappa
Clonality:	Monoclonal
Immunogen:	The original antibody was generated by immunizing mice with live leukemic myeloblasts.
Specificity:	<p>This antibody binds CD33, which is a 67 kD glycoprotein expressed on monocytes, hematopoietic progenitors, early myeloid progenitor cells and myeloid leukemias (acute and chronic) but not expressed on mature myeloid cells, normal stem cells, other hemtopoietic cells and non hematopoietic human tissues.</p> <p>This antibody is recommended for myeloid differentiation studies, diagnosis of acute non-lymphoid leukemia cells and therapeutic treatment of myeloid leukemia. Specificity of this antibody to CD33 was determined using RIA and immunoabsorption. Immunofluorescence assay showed that the antigen is not expressed on adult human tissues (PMID: 2716349). Flow cytometric analysis was used to confirm reactivity of M195 with fresh hematopoietic neoplasms in the blood or bone marrow. In combination with MY9, this antibody is useful in diagnosis of acute myelogenous leukemia(AML) (PMID: 2725060). Murine antibody M195 was used in the phase I trial of AML (PMID: 1999719). Humanized IgG1 and IgG3 versions of this antibody has higher apparent binding affinity for CD33 antigen than the chimeric and parent murine version (PMID: 1737932, 1458463). The increase in binding affinity resulted from eliminating an N-linked glycosylation site at residue 73 in the heavy chain variable region in the course of humanization (PMID: 8232322). Preliminary trials to treat AML with humanized antibody showed specific bone marrow targeting without an immunogenic response (PMID: 8124221).</p>
Formulation:	PBS with 0.02% Proclin 300.
Concentration:	lot specific
Conjugation:	Unconjugated



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<b>Storage:</b>	Please store at 4°C for up to 3 months. For longer storage, aliquot and store at -20°C. Avoid freeze and thaw cycles.
<b>Stability:</b>	3 years from dispatch.
<b>Gene Name:</b>	CD33 molecule
<b>Database Link:</b>	<a href="#">Entrez Gene 945 Human P20138</a>
<b>Synonyms:</b>	FLJ00391; gp67; p67; SIGLEC-3; SIGLEC3