

## CD33 Polyclonal Antibody

<b>Catalog No :</b>	YT5584
<b>Reactivity :</b>	Human;Mouse
<b>Applications :</b>	WB;ELISA
<b>Target :</b>	CD33
<b>Fields :</b>	>>Hematopoietic cell lineage
<b>Gene Name :</b>	CD33
<b>Protein Name :</b>	Myeloid cell surface antigen CD33
<b>Human Gene Id :</b>	945
<b>Human Swiss Prot No :</b>	P20138
<b>Mouse Swiss Prot No :</b>	Q63994
<b>Immunogen :</b>	The antiserum was produced against synthesized peptide derived from the Internal region of human CD33. AA range:71-120
<b>Specificity :</b>	CD33 Polyclonal Antibody detects endogenous levels of CD33 protein.
<b>Formulation :</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
<b>Source :</b>	Polyclonal, Rabbit,IgG
<b>Dilution :</b>	WB 1:500 - 1:2000. ELISA: 1:10000. Not yet tested in other applications.
<b>Purification :</b>	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
<b>Concentration :</b>	1 mg/ml
<b>Storage Stability :</b>	-15°C to -25°C/1 year(Do not lower than -25°C)

**Observed Band :** 40kD

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**Cell Pathway :** Hematopoietic cell lineage;

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**Background :** 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.,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).,online information:Siglec-3,PTM:Phosphorylation of Tyr-340 is involved in binding to PTPN6 and PTPN11. Phosphorylation of Tyr-358 is involved in binding to PTPN6.,similarity:Belongs to the immunoglobulin superfamily. SIGLEC (sialic acid binding Ig-like lectin) family.,similarity:Contains 1 Ig-like C2-type (immunoglobulin-like) domain.,similarity:Contains 1 Ig-like V-type (immunoglobulin-like) domain.,subunit:Interacts with PTPN6/SHP-1 and PTPN11/SHP-2 upon phosphorylation.,tissue specificity:Monocytic/myeloid lineage cells.,

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**Function :** 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.,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).,online information:Siglec

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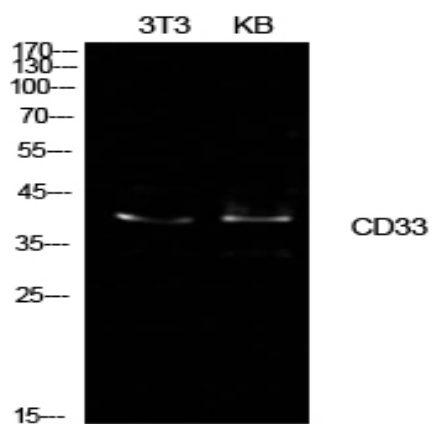
**Subcellular Location :** [Isoform CD33M]: Cell membrane ; Single-pass type I membrane protein.; [Isoform CD33m]: Peroxisome . CD33m isoform does not localize to cell surfaces but instead accumulates in peroxisomes. .

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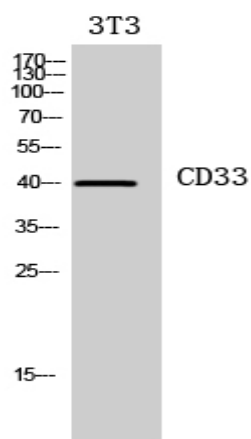
**Expression :** Monocytic/myeloid lineage cells. In the brain, CD33 is mainly expressed on microglial cells.

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## Products Images



Western Blot analysis of NIH-3T3, KB cells using CD33 Polyclonal Antibody. Secondary antibody(catalog#:RS0002) was diluted at 1:20000



Western Blot analysis of 3T3 cells using CD33 Polyclonal Antibody. Secondary antibody(catalog#:RS0002) was diluted at 1:20000