10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Anti-CD33 Antibody

Catalog # ABO12781

Product Information

Application	WB, IHC-P
Primary Accession	Q63994
Host	Rabbit
Reactivity	Mouse
Clonality	Polyclonal
Format	Lyophilized
Description	Rabbit IgG polyclonal antibody for Myeloid cell surface antigen CD33(CD33) detection. Tested with WB, IHC-P in Mouse.
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Additional Information

Gene ID	12489
Other Names	Myeloid cell surface antigen CD33, Sialic acid-binding Ig-like lectin 3, Siglec-3, CD33, Cd33, Siglec3
Calculated MW	44824
Application Details	Immunohistochemistry(Paraffin-embedded Section), 0.5-1 □g/ml, Mouse, By Heat Western blot, 0.1-0.5 □g/ml, Mouse
Subcellular Localization	Cell membrane; Single-pass type I membrane protein.
Source	Eukaryota
Protein Name	Myeloid cell surface antigen CD33
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.
Immunogen	E. coli-derived mouse CD33 recombinant protein (Position: D18-E240). Mouse CD33 shares 61.6% amino acid (aa) sequence identity with human CD33.
Purification	Immunogen affinity purified.
Cross Reactivity	No cross reactivity with other proteins
Storage	At -20˚C for one year. After r˚Constitution, at 4˚C for one month. It˚Can also be aliquotted and stored frozen at -20˚C for a longer time.Avoid repeated freezing and thawing.

Protein Information

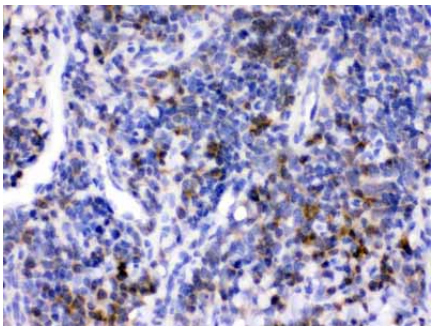
Name	Cd33
Synonyms	Siglec3
Function	Sialic-acid-binding immunoglobulin-like lectin (Siglec) that plays a role in mediating cell-cell interactions and in maintaining immune cells in a resting state (By similarity). Preferentially binds sialic acid to the short O-linked glycans of certain mucins (PubMed:12773563).
Cellular Location	Cell membrane {ECO:0000250|UniProtKB:P20138}; Single-pass type I membrane protein {ECO:0000250|UniProtKB:P20138}
Tissue Location	Expressed on myeloid precursors in the bone marrow. In the peripheral blood, mostly expressed on granulocytes

Background

CD33, also known as Siglec-3 (sialic acid binding Ig-like lectin 3, SIGLEC3, SIGLEC-3, gp67, p67), is a transmembrane receptor expressed on cells of myeloid lineage. It is usually considered myeloid-specific, but it can also be found on some lymphoid cells. CD33 binds sialic acids, therefore is a member of the SIGLEC family of lectins. By fluorescence in situ hybridization, CD33 is mapped to 19q13.3-q13.4.

Images

Western blot analysis of CD33 expression in mosue lung extract (lane 1). CD33 at 45KD was detected using rabbit anti-CD33 Antigen Affinity purified polyclonal antibody (Catalog # ABO12781) at 0.5 □¼g/mL. The blot was developed using chemiluminescence (ECL) method .



CD33 was detected in paraffin-embedded sections of mouse pleen tissues using rabbit anti- CD33 Antigen Affinity purified polyclonal antibody (Catalog # ABO12781) at 1 ??g/mL. The immunohistochemical section was developed using SABC method .