



Rabbit Anti-Cynomolgus CD33 Polyclonal Antibody (CABT-NS1713)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Specificity	Cynomolgus CD33/Siglec-3
Target	CD33
Immunogen	Recombinant Cynomolgus CD33/Siglec-3 protein
Isotype	IgG
Source/Host	Rabbit
Species Reactivity	Cynomolgus
Conjugate	Unconjugated
Applications	<p>ELISA</p> <p>Recommended dilution:</p> <p>ELISA: 0.1-0.2 µg/mL.</p> <p>This antibody can be used at 0.1-0.2 µg/mL with the appropriate secondary reagents to detect Cynomolgus CD33/Siglec-3.</p> <p>The detection limit for Cynomolgus CD33/Siglec-3 is < 0.039 ng/well.</p> <p>Each laboratory should determine an optimum working titer for use in its particular application.</p> <p>Other applications have not been tested but use in such assays should not necessarily be excluded.</p>
Format	Liquid, Purified
Size	50 µl, 100 µl, 200 µl
Buffer	0.2 µm filtered solution in PBS
Preservative	None

Storage

This antibody can be stored at 2°C-8°C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20°C to -80°C. Preservative-Free. Sodium azide is recommended to avoid contamination (final concentration 0.05%-0.1%). It is toxic to cells and should be disposed of properly. Avoid repeated freeze-thaw cycles.

BACKGROUND

Introduction

Myeloid cell surface antigen CD33 also known as Sialic acid binding Ig-like lectin 3, CD33 antigen or Siglec-3, is a member of the immunoglobulin superfamily and SIGLEC (sialic acid binding Ig-like lectin) family. This Single-pass type I membrane protein contains 1 Ig-like C2-type (immunoglobulin-like) domain and 1 Ig-like V-type (immunoglobulin-like) domain. CD33 /Siglec-3 is a putative adhesion molecule of myelomonocytic-derived cells that mediates sialic-acid dependent binding to cells. CD33 /Siglec-3 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. CD33/Siglec-3 induces apoptosis in acute myeloid leukemia (in vitro). CD33/Siglec-3 can function as a sialic acid-dependent cell adhesion molecule and that binding can be modulated by endogenous sialoglycoconjugates when CD33 is expressed in a plasma membrane.

Keywords

CD33; CD33 molecule; p67; SIGLEC3; SIGLEC-3; myeloid cell surface antigen CD33; gp67; CD33 antigen (gp67); sialic acid binding Ig-like lectin 3; sialic acid-binding Ig-like lectin 3;
