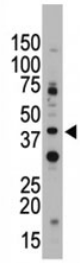
CD33 Antibody (F44602)

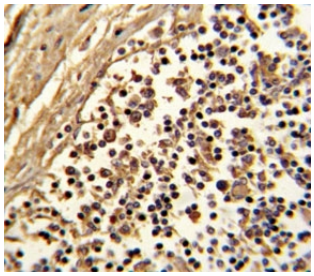
Catalog No.	Formulation	Size
F44602-0.4ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.4 ml
F44602-0.08ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.08 ml

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit Ig
Purity	Purified
UniProt	P20138
Applications	Western blot: 1:1000 IHC (Paraffin): 1:10-1:50
Limitations	This CD33 antibody is available for research use only.



CD33 antibody used in western blot to detect CD33 in Jurkat cell lysate. Predicted molecular weight is 40-67 kDa depending on glycosylation level



IHC analysis of FFPE human lymph with CD33 antibody

Description

SIGLEC3/CD33 is a putative adhesion molecule of myelomonocytic-derived cells that mediates sialic-acid dependent binding to cells. It preferentially binds to alpha2,6-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, CD33 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. This protein Induces apoptosis in acute myeloid leukemia (in vitro). It has been shown to interact with PTPN6/SHP-1 and PTPN11/SHP-2 upon phosphorylation. CD333 expresses in monocytic/myeloid lineage cells, and contains 2 copies of a cytoplasmic motif that is referred to as the immunoreceptor tyrosine-based inhibitor motif (ITIM). This motif is involved in downmodulation of cellular responses. The phosphorylated ITIM motif binds to the SH2 domain of PTPN6/SHP-1. Phosphorylation of Tyr-340 is involved in binding to PTPN6 and PTPN11. Phosphorylation of Tyr-358 is involved in binding to PTPN6.

Application Notes

Titration of the CD33 antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

A portion of amino acids 12-39 from the human protein was used as the immunogen for this CD33 antibody.

Storage

Aliquot the CD33 antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.

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