

Product datasheet for **AP11624PU-N**

CD33 (N-term) Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	IHC, WB
Recommended Dilution:	Peptide ELISA: 1/1,000. Western blot: 1/1,000. Immunohistochemistry on Paraffin Sections: 1/50-1/100.
Reactivity:	Human
Host:	Rabbit
Isotype:	Ig
Clonality:	Polyclonal
Immunogen:	KLH conjugated synthetic peptide between 12~39 amino acids from the N-terminal region of Human CD33/SIGLEC3.
Specificity:	This antibody detects Human CD33 (SIGLEC3) at N-term. Other species not tested.
Formulation:	PBS State: Purified State: Liquid purified Ig fraction Preservative: 0.09% (W/V) Sodium Azide
Concentration:	lot specific
Purification:	Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PB
Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	CD33 molecule
Database Link:	Entrez Gene 945 Human P20138



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Background:

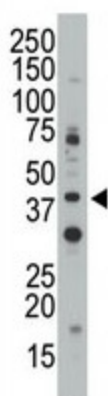
CD33/SIGLEC3 is a putative adhesion molecule of myelomonocytic-derived cells that mediates sialic-acid dependent binding to cells. It preferentially binds to alpha2,6-linked sialic acid; the sialic acid recognition site may be masked by cis interactions with sialic acids on the same cell surface. In the immune response, SIGLEC3 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. SIGLEC3 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. The gene for SIGLEC3 belongs to the immunoglobulin superfamily.

Synonyms:

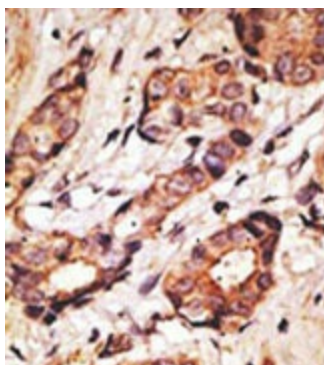
Siglec-3, gp67

Note:

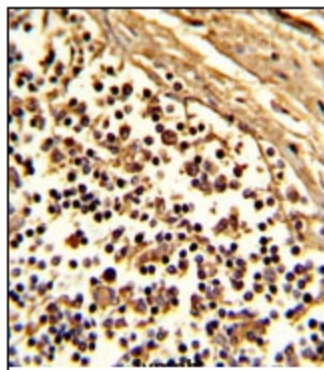
Calculated Molecular Weight: 39825 Da

Product images:


SIGLEC3 / CD33 antibody (N-term) staining of Jurkat cell lysate by Western blotting.



Formalin-fixed and paraffin-embedded human lymph with SIGLEC3 / CD33 Antibody (N-term), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.



Formalin-fixed and paraffin-embedded human breast carcinoma reacted with the primary antibody, which was peroxidase-conjugated to the secondary antibody, followed by AEC staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.