

CD33 Recombinant Rabbit Monoclonal Antibody Product Datasheet

Catalog# BX50371

Clone# BP6338

Predicted Molecular Wt: 40kDa
Species Cross-reactivity: Human
Applications: IHC-P

Purity: ProA affinity purified IgG
Form: Liquid
Swissprot ID: P20138

Background:

The CD33 (cluster of differentiation 33) gene is located on human chromosome 19 within the hotspot region 19q13.33, which is closely associated with Alzheimer's disease (AD). The CD33 gene encodes the type I transmembrane protein CD33, which belongs to both the sialic acid-binding immunoglobulin-like lectin (Siglec) family and the immunoglobulin superfamily. It primarily functions through receptor-ligand interactions on the cell surface. Given its specific expression in immune cells, a key role of CD33 is regulating immune cell functions such as phagocytosis, cytokine release, and apoptosis.

CD33 is a myeloid-specific marker protein primarily expressed in human bone marrow, spleen, monocytes, and tissue macrophages, serving as a prime target for AML immunotherapy.

CD33 is expressed on myeloid-monocytic cell lines and binds to sialic acid residues in N- and O-glycans on the cell surface, making it a therapeutic target for acute myeloid leukemia. Additionally, CD33 is present on granulocyte and macrophage precursors in bone marrow but absent on multipotent stem cells. It is also expressed on peripheral monocytes and serves as a useful marker for these cells. CD33 can be used to distinguish myeloid leukemia from lymphocytic or erythroid leukemias.

Subcellular location:

Membrane/Cytoplasm

Recommended Method:

Heat induced epitope retrieval with Tris-EDTA buffer (pH 9.0), primary antibody incubate at RT (18°C-25°C) for 30 minutes.

Immunogen:

The synthetic peptide corresponding to Human CD33 aa 210-259

Storage Buffer:

PBS 59%, Sodium azide 0.01%, Glycerol 40%, BSA 0.05%.

Storage Conditions:

-25°C to -18°C

Shipment Instructions:

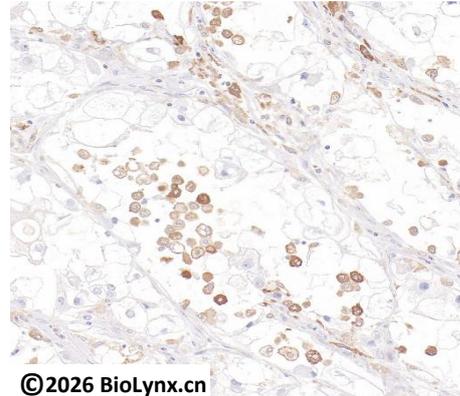
Shipped on blue ice. Upon delivery store at -25°C to -18°C. Avoid freeze / thaw cycles.

Recommended Dilution:

IHC-P: 1:100-1:200

Background References:

- Zhouting Tuo, et al. (2024) Discover oncology 15:654
- Yuanyuan Sun, et al. (2024) Communications biology 7:63



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Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human renal clear cell carcinoma labelling CD33 with BP6338.

Product QC'd by: 

For research use only. Not for use in diagnostic or therapeutic applications.