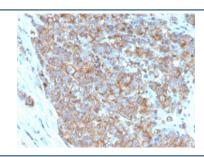


CD33 Antibody [clone SIGLEC3/3600] (V8760)

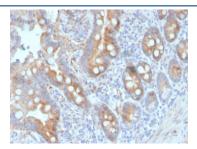
| Catalog No. | Formulation | Size |
|----------------|--|--------|
| V8760-100UG | 0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide | 100 ug |
| V8760-20UG | 0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide | 20 ug |
| V8760SAF-100UG | 1 mg/ml in 1X PBS; BSA free, sodium azide free | 100 ug |

Bulk quote request

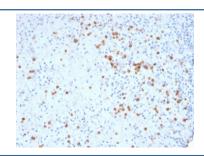
| Availability | 1-3 business days |
|--------------------|--|
| Species Reactivity | Human |
| Format | Purified |
| Clonality | Monoclonal (mouse origin) |
| Isotype | Mouse IgG2c, kappa |
| Clone Name | SIGLEC3/3600 |
| Purity | Protein G affinity chromatography |
| UniProt | P20138 |
| Localization | Cell surface, cytoplasmic |
| Applications | Immunohistochemistry (FFPE): 1-2ug/ml for 30 minutes at RT |
| Limitations | This CD33 antibody is available for research use only. |



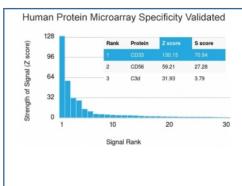
IHC staining of FFPE human urothelial carcinoma with CD33 antibody (clone SIGLEC3/3600). HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 20 min and allow to cool before testing.



IHC staining of FFPE human colon carcinoma with CD33 antibody (clone SIGLEC3/3600). HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 20 min and allow to cool before testing.



IHC staining of FFPE human spleen with CD33 antibody (clone SIGLEC3/3600). HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 20 min and allow to cool before testing.



Analysis of HuProt(TM) microarray containing more than 19,000 full-length human proteins using CD33 antibody (clone SIGLEC3/3600). These results demonstrate the foremost specificity of the SIGLEC3/3600 mAb. Z- and S- score: The Z-score represents the strength of a signal that an antibody (in combination with a fluorescently-tagged antilgG secondary Ab) produces when binding to a particular protein on the HuProt(TM) array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If the targets on the HuProt(TM) are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-scores. The S-score therefore represents the relative target specificity of an Ab to its intended target.

Description

Recognizes a 67kDa glycoprotein, which is identified as CD33. It is a transmembrane protein of the sialic acid-binding immunoglobulin-like lectin (Siglec) family. It belongs to the immunoreceptor tyrosine-based inhibitory motif (ITIM)-containing molecules able of recruiting protein tyrosine phosphatases SHP-1 and SHP-2 to signal assemblies; these ITIMs are also used for ubiquitin-mediated removal of the receptor from the cell surface. CD33 is expressed on cells of myelomonocytic lineage, binds sialic acid residues in N- and O-glycans on cell surfaces, and is a therapeutic target for acute myeloid leukemia. CD33 is expressed on myeloid progenitors, monocytes, granulocytes, dendritic cells and mast cells. It is absent on platelets, lymphocytes, erythrocytes and hematopoietic stem cells.

Application Notes

Optimal dilution of the CD33 antibody should be determined by the researcher.

Immunogen

A portion of amino acids 51-224 from the human protein was used as the immunogen for the CD33 antibody.

Storage

Store the CD33 antibody at 2-8oC (with azide) or aliquot and store at -20oC or colder (without azide).