

Recombinant Mouse CD33 protein (His tag) ab276912

1 Image

Description

|                                 |  |  |  |
|---------------------------------|--|--|--|
| Product name                    | Recombinant Mouse CD33 protein (His tag)   |  |  |
| Purity                          | > 92 % SDS-PAGE.   |  |  |
| Endotoxin level                 | < 1.000 Eu/µg  |  |  |
| Expression system               | HEK 293 cells  |  |  |
| Accession                       | <b><u>Q63994-1</u></b>   |  |  |
| Protein length                  | Protein fragment   |  |  |
| Animal free                     | No   |  |  |
| Nature                          | Recombinant  |  |  |
| Species                         | Mouse  |  |  |
| Sequence                        | MLWPLPLFLL CAGSLAQDLE FQLVAPESVT<br>VEEGLCVHVP CSVFYPSIKL TLGPVTGSWL<br>RKGVSLHEDS PVATSDPRQL VQKATQGRFQ<br>LLGDPQKHDC SLFIRDAQKN DTGMYFFRVV<br>REPFVRYSYK KSQSLHVTSLSRTPDIIIIP GTLEAGYPSN<br>LTCSVPWACE QGTPPTFSWM STALTSLSRR<br>TTDSSVLTFP PQQDHTGKL TCLVTFSGAG VTVERTIQLN<br>VTRKSGQMRE |  |  |
| Predicted molecular weight      | 26 kDa including tags  |  |  |
| Molecular weight information    | The secreted recombinant mouse CD33 comprises 235 amino acids and has a calculated molecular mass of 26 kDa. As a result of glycosylation, the apparent molecular mass of rm CD33 is approximately 38-42 kDa in SDS-PAGE under reducing conditions.  |  |  |
| Amino acids                     | 1 to 240   |  |  |
| Tags                            | His tag C-Terminus   |  |  |
| Additional sequence information | Predicted N-terminus: Gln 17.  |  |  |

Specifications

Our **Abpromise guarantee** covers the use of **ab276912** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

**Applications** SDS-PAGE

**Form** Lyophilized

## Preparation and Storage

**Stability and Storage** Shipped at Room Temperature. Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.

pH: 7.40

Constituent: 100% PBS

**Reconstitution** This information is lot specific. Please contact our technical Support team for details.

## General Info

**Function** Putative adhesion molecule of myelomonocytic-derived cells that mediates sialic-acid dependent binding to cells. 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. Induces apoptosis in acute myeloid leukemia (in vitro).

**Tissue specificity** Monocytic/myeloid lineage cells.

**Sequence similarities** Belongs to the immunoglobulin superfamily. SIGLEC (sialic acid binding Ig-like lectin) family.

Contains 1 Ig-like C2-type (immunoglobulin-like) domain.

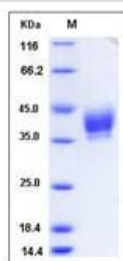
Contains 1 Ig-like V-type (immunoglobulin-like) domain.

**Domain** Contains 2 copies of a cytoplasmic motif that is referred to as the immunoreceptor tyrosine-based inhibitor motif (ITIM). This motif is involved in modulation of cellular responses. The phosphorylated ITIM motif can bind the SH2 domain of several SH2-containing phosphatases.

**Post-translational modifications** Phosphorylation of Tyr-340 is involved in binding to PTPN6 and PTPN11. Phosphorylation of Tyr-358 is involved in binding to PTPN6.

**Cellular localization** Cell membrane.

## Images



SDS-PAGE analysis of ab276912

SDS-PAGE - Recombinant Mouse CD33 protein  
(ab276912)

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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