

Product datasheet

Recombinant Human CD33 protein (Tagged) ab271427

1 Image

Description

<b>Product name</b>	Recombinant Human CD33 protein (Tagged)
<b>Purity</b>	>= 90 % SDS-PAGE.
<b>Expression system</b>	HEK 293 cells
<b>Accession</b>	<a href="#">P20138</a>
<b>Protein length</b>	Protein fragment
<b>Animal free</b>	No
<b>Nature</b>	Recombinant
<b>Species</b>	Human
<b>Sequence</b>	<pre> MPLLLLLPLL WAGALAMDPN FWLQVQESVT VQEGLCVLVP CTFHPIPIYY DKNSPVHGYW FREGAISR D SPVATNKLDQ EVQEETQGRF RLLGDPSRNN CSLSVDARR RDNGSYFFRM ERGSTKYSYK SPQLSVHVT D LTHRPKILIP GTLEPGHSKN LTCSVSWACE QGTPPIFSWL SAAPTSLGPR TTHSSVLIT PRPQDHGTNL TCQVKFAGAG VTTERTIQLN VTYVPQNPTT GIFPGDGSGK QETRAGVVH           </pre>
<b>Predicted molecular weight</b>	57 kDa including tags
<b>Molecular weight information</b>	Protein runs at a higher than predicted MW n SDS-PAGE due to glycosylation.
<b>Amino acids</b>	1 to 259
<b>Tags</b>	Avi tag C-Terminus , Fc tag C-Terminus
<b>Additional sequence information</b>	Fc portion of human IgG1. Genbank: NM_001772

Specifications

Our [Abpromise guarantee](#) covers the use of **ab271427** in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

<b>Applications</b>	SDS-PAGE
<b>Form</b>	Liquid

Preparation and Storage

## Stability and Storage

Shipped on Dry Ice. Store at -80°C. Avoid freeze / thaw cycle.

pH: 7.40

Constituents: 0.13% Sodium phosphate, 0.64% Sodium chloride, 0.02% Potassium chloride, 20% Glycerol (glycerin, glycerine)

## 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.

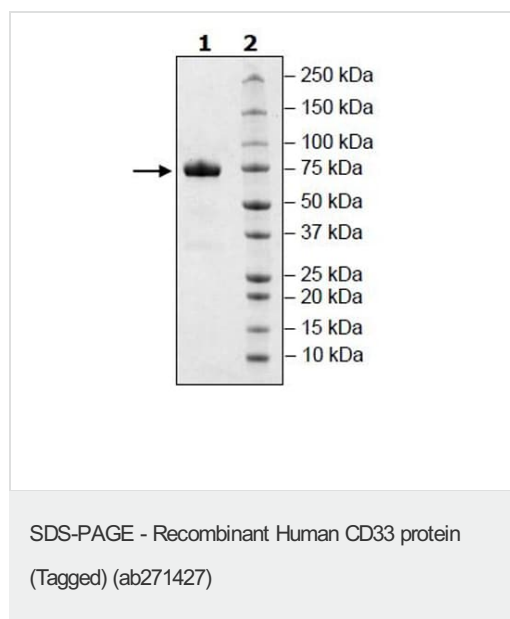
### Post-translational modifications

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 ab271427.

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

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