

Datasheet for ABIN2666859 Siglec E Protein (AA 20-355, C-Term) (Fc Tag)



Overview

Background:

Overview	
Quantity:	100 µg
Target:	Siglec E (Siglece)
Protein Characteristics:	AA 20-355, C-Term
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This Siglec E protein is labelled with Fc Tag.
Application:	Flow Cytometry (FACS), Immunohistochemistry (IHC)
Product Details	
Purity:	> 95 % , as determined by Coomassie stained SDS-PAGE.
Sterility:	0.22 µm filtered
Endotoxin Level:	Less than 1.0 EU per μg of protein as determine by the LAL method.
Target Details	
Target:	Siglec E (Siglece)
Alternative Name:	Siglec E (Siglece Products)

Siglecs (sialic acid binding Ig-like lectins) are type I membrane proteins with an extracellular

region containing a sialic acid binding V-set Ig-like domain at the N-terminus, followed by

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 1/3 | Product datasheet for ABIN2666859 | 07/26/2024 | Copyright antibodies-online. All rights reserved.

varying numbers of C2-set Ig domains. The cytoplasmic tails of all siglecs have one or more
tyrosines within potential signalling motifs. Siglecs are widely expressed on hematopoietic
cells, often in a cell-type-specific manner. Their ligands, sialic acids, are negatively charged
monosaccharides found on cell-surface glycoproteins and glycolipids. Studies suggest that
siglecs may participate in cell-cell interactions or act as receptors for the entry of viral or
bacterial pathogens. In addition, the presence of immunoreceptor tyrosine-based inhibitory
motifs (ITIM) in their cytoplasmic domain indicates that these molecules may play a role in the
suppression of immunoreceptor signaling. The siglecs can be classified into two subgroups,
with Siglec-1, -2, and -4 as one group and a Siglec-3/CD33-related subgroup (Siglec-3, and -5
through -13) as the second. Siglec E is a mouse CD33-related siglec that selectively regulates
early recruitment of neutrophils to the lung in acute lung inflammation induced by
lipopolysaccharide. Siglec E-deficient mice exhibit exaggerated neutrophil recruitment that is
reversible by using a blockade of the $\beta 2$ integrin, CD11b. In addition, sialidase treatment of
fibrinogen reverses the suppressive effect of Siglec E on CD11b signaling, suggesting that sialic
acid recognition by Siglec E is required for its inhibitory function. These findings indicate that
Siglec E is an important negative regulator of neutrophil recruitment to the lung and $\beta 2$ integrin-
dependent signaling.

Molecular Weight:This 570 amino acid recombinant protein has a predicted molecular mass of approximately 63kDa. The protein migrates at about 80 - 90 kDa by SDS-PAGE in DTT-reducing conditions and
about 180 - 200 kDa in non-reducing conditions. The predicted N-terminal a

Application Notes:	Optimal working dilution should be determined by the investigator.
Comment:	Biological activity: Recombinant mouse Siglec E is able to agglutinate human red blood cells with an ED50 of 0.625 - 2.5 μ g/ml.
Restrictions:	For Research Use only
Handling	
Format:	Liquid
Reconstitution:	For maximum results, quick spin vial prior to opening. Stock solutions should be prepared at no less than 10 µg/mL in sterile buffer (PBS, HPBS, DPBS, and EBSS) containing carrier protein such as 1 % BSA or HSA. After dilution, the cytokine can be stored between 2 °C and 8 °C for

Application Details

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 2/3 | Product datasheet for ABIN2666859 | 07/26/2024 | Copyright antibodies-online. All rights reserved.

one month or from -20 °C to -70 °C for up to 3 months.

Handling

Concentration:	100 μg/mL
Buffer:	0.22 µm filtered protein solution is in PBS.
Handling Advice:	Avoid repeated freeze/thaw cycles.
Storage:	-20 °C
Storage Comment:	Unopened vial can be stored between 2°C and 8°C for three months, at -20°C for six months, or at -70°C for one year.