

Product datasheet

Recombinant Human CEACAM3 protein ab151918

Description

Product name	Recombinant Human CEACAM3 protein	
Purity	> 95 % SDS-PAGE. Purity is greater than 95% as determined by SEC-HPLC and reducing SDS-PAGE.	
Endotoxin level	< 1.000 Eu/μg	
Expression system	HEK 293 cells	
Accession	P40198	
Protein length	Protein fragment	
Animal free	No	
Nature	Recombinant	
Species	Human	
Sequence	KLTIESMPLSVAEGKEVLLLLVHNL PQHLFGYSWYKGERVD GNSLIVGYI GTQQATPGAAYSGRETYTNASLLIQNVTQNDIGFYTLQVIK SDLVNEEA TGQFHVYQENAPGLPVGAVAGVDHHHHHH	
Predicted molecular weight	14 kDa including tags	
Amino acids	35 to 155	
Tags	His tag C-Terminus	

Specifications

Our [Abpromise guarantee](#) covers the use of **ab151918** 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 HPLC
Form	Lyophilized

Preparation and Storage

Stability and Storage	Shipped at 4°C. The lyophilized protein is stable for a few weeks at room temperature. Store at -20°C long term. pH: 7.20
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Constituents: 99% Phosphate Buffer, 0.88% Sodium chloride

Reconstitution

Always centrifuge tubes before opening. Do not mix by vortex or pipetting. Dissolve the lyophilized protein in 1X PBS. It is not recommended to reconstitute to a concentration less than 100 µg/ml. Reconstituted protein solution can be stored at 4-7°C for 2-7 days. For long term storage aliquot and store at < -20°C.

General Info

Function

Major granulocyte receptor mediating recognition and efficient opsonin-independent phagocytosis of CEACAM-binding microorganisms, including Neisseria, Moxarella and Haemophilus species, thus playing an important role in the clearance of pathogens by the innate immune system. Responsible for RAC1 stimulation in the course of pathogen phagocytosis.

Tissue specificity

CGM1a, the predominant CGM1 transcript, is granulocyte-specific. Not detected out of the granulocytic lineage, such as monocytes, lymphocytes, spleen, testis, colon, brain, liver, pancreas, thymus, ovary, placenta, skeletal muscle, prostate, small intestine, heart, lung and kidney.

Sequence similarities

Belongs to the immunoglobulin superfamily. CEA family.
Contains 1 Ig-like V-type (immunoglobulin-like) domain.

Domain

The cytosolic domain is involved in S100A9 interaction.

Post-translational modifications

Tyrosine-phosphorylated in response to microbial binding. Tyr-230 and Tyr-241 are both required for phosphorylation to be detected.

Cellular localization

Membrane.

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

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