

Recombinant Human CEACAM1 Protein, His-tagged, Alexa Fluor 555 conjugated

Cat. No. CEACAM1-662HAF555 **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Alexa Fluor 555 conjugated recombinant human CEACAM1 (Gln35-Gly428) protein was fused to His-tag at C-terminus and expressed in human 293 cells (HEK293).

Species

Human

Source

HEK293

ProteinLength

Gln35-Gly428

Description

Carcinoembryonic antigen-related cell adhesion molecule 1 (CEACAM1) is also known as Biliary glycoprotein 1 (BGP1), CD66a, which belongs to the immunoglobulin superfamily or CEA family. CEACAM1/CD66a contains three Ig-like C2-type (immunoglobulin-like) domains and one Ig-like V-type (immunoglobulin-like) domain. CEACAM1/CD66a was described as an adhesion molecule mediating cell adhesion via both homophilic and heterophilic manners, and was detected on leukocytes, epithelia, and endothelia. Studies have revealed that CEACAM1/BGP-1 performs actions in multiple cellular processes including tissue differentiation, angiogenesis, apoptosis, metastasis, as well as the modulation of innate and adaptive immune responses.

Form

Lyophilized

Molecular Mass

The protein has a calculated MW of 44.2 kDa. The protein migrates as 57-100 kDa under reducing (R) condition (SDS-PAGE) due to different glycosylation.

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|-------------------------------------|---|
| N-terminal Sequence Analysis | Gln 35 |
| Endotoxin | < 1.0 EU/ µg by the LAL method. |
| Purity | > 92 % as determined by SDS-PAGE |
| Characteristic | <p>Disulfide-linked homodimer</p> <p>Labeled with Alexa Fluor 555 via amines</p> <p>With an excitation and emission maximum of 555/565 nm, Alexa Fluor 555 can be efficiently excited using a 543 nm He-Ne laser line and detected under standard TRITC/Cy3 filters.</p> |
| Storage | <p>For long term storage, the product should be stored at lyophilized state at -20 centigrade or lower.</p> <p>Please avoid repeated freeze-thaw cycles.</p> <p>This product is stable after storage at:</p> <p>-20 to -70 centigrade for 12 months in lyophilized state;</p> <p>-70 centigrade for 3 months under sterile conditions after reconstitution.</p> |
| Storage Buffer | Lyophilized from 0.22 µm filtered solution in PBS, pH7.4, 10% trehalose. |
| Reconstitution | It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 µg/µL. Centrifuge the vial at 4 centigrade before opening to recover the entire contents. |
| Conjugation | Alexa Fluor 555 |

GENE INFORMATION

Gene Name **CEACAM1**

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| Official Symbol | CEACAM1 |
| Synonyms | CEACAM1; carcinoembryonic antigen-related cell adhesion molecule 1 (biliary glycoprotein); BGP; carcinoembryonic antigen-related cell adhesion molecule 1; BGP1; CD66a; antigen CD66; CD66a antigen; BGPI |
| Gene ID | 634 |
| mRNA Refseq | NM_001024912 |
| Protein Refseq | NP_001020083 |
| MIM | 109770 |
| UniProt ID | P13688 |

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