

# Recombinant Human CEACAM1 Protein, His-tagged, FITC conjugated

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

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
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| <b>Product Overview</b> | FITC conjugated recombinant human CEACAM1 (Gln35-Gly428) protein was fused to His-tag at C-terminus and expressed in human 293 cells (HEK293).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Source</b>           | HEK293                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>ProteinLength</b>    | Gln35-Gly428                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Description</b>      | 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. |
| <b>Form</b>             | Lyophilized                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Molecular Mass</b>   | 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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|-------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>N-terminal Sequence Analysis</b> | Gln 35                                                                                                                                                                                                                                                                                                                                                          |
| <b>Endotoxin</b>                    | < 1.0 EU/ µg by the LAL method.                                                                                                                                                                                                                                                                                                                                 |
| <b>Purity</b>                       | > 92 % as determined by SDS-PAGE                                                                                                                                                                                                                                                                                                                                |
| <b>Characteristic</b>               | <p>Disulfide-linked homodimer</p> <p>Labeled with FITC via amines</p> <p>Excitation source: 488 nm spectral line, argon-ion laser</p> <p>Excitation Wavelength: 488 nm</p> <p>Emission Wavelength: 535 nm</p>                                                                                                                                                   |
| <b>Storage</b>                      | <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> |
| <b>Storage Buffer</b>               | Lyophilized from 0.22 µm filtered solution in PBS, pH7.4, 10% trehalose.                                                                                                                                                                                                                                                                                        |
| <b>Reconstitution</b>               | 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.                                                                                                                                                                          |
| <b>Conjugation</b>                  | FITC                                                                                                                                                                                                                                                                                                                                                            |
| <b>GENE INFORMATION</b>             |                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Gene Name</b>                    | CEACAM1                                                                                                                                                                                                                                                                                                                                                         |

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|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Official Symbol</b> | CEACAM1                                                                                                                                                                                                   |
| <b>Synonyms</b>        | 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 |
| <b>Gene ID</b>         | 634                                                                                                                                                                                                       |
| <b>mRNA Refseq</b>     | NM_001024912                                                                                                                                                                                              |
| <b>Protein Refseq</b>  | NP_001020083                                                                                                                                                                                              |
| <b>MIM</b>             | 109770                                                                                                                                                                                                    |
| <b>UniProt ID</b>      | P13688                                                                                                                                                                                                    |

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