

For Research Use Only

Recombinant Human CEACAM-6/CD66c protein (Myc Tag, His Tag)



Catalog Number: Eg0056

Basic Information

Species:
Human

EC50:
12-46 ng/mL

Purity:
>95 %, SDS-PAGE

Tag:
Myc Tag, His Tag

Technical Specifications

Purity:
>95 %, SDS-PAGE

Endotoxin Level:
<0.1 EU/ μ g protein, LAL method

Source:
HEK293-derived Human CEACAM-6 protein Lys35 -Gly320 (Accession# P40199) with a Myc tag and a His tag at the C-terminus.

GeneID:
4680

Accession:
P40199

Predicted Molecular Mass:
36.3 kDa

SDS-PAGE:
40-70 kDa, reducing (R) conditions

Formulation:
Lyophilized from 0.22 μ m filtered solution in PBS, pH 7.4. Normally 5% trehalose and 5% mannitol are added as protectants before lyophilization.

Biological Activity

Immobilized Human CEACAM-6 (Myc tag, His tag) at 2 μ g/mL (100 μ L/well) can bind Human CEACAM-8 (hFc tag) with a linear range of 12-46 ng/mL.

Storage and Shipping

Storage:

It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

- Until expiry date, -20°C to -80°C as lyophilized proteins.
- 3 months, -20°C to -80°C under sterile conditions after reconstitution.

Shipping:

The product is shipped at ambient temperature. Upon receipt, store it immediately at the recommended temperature.

Reconstitution

Briefly centrifuge the tube before opening. Reconstitute at 0.1-0.5 mg/mL in sterile water.

Background

Carcinoembryonic antigen-related cell adhesion molecule 6 (CEACAM6), belonging to the immunoglobulin superfamily, is cell-adhesion protein on neutrophils. CEACAM6 is expressed in neutrophils and numerous tumor cell lines. CEACAM6 mediates homophilic and heterophilic cell adhesion with other carcinoembryonic antigen-related cell adhesion molecules, such as CEACAM5 and CEACAM8. It plays a role in neutrophil adhesion to cytokine-activated endothelial cells and plays a role as an oncogene by promoting tumor progression; positively regulates cell migration, cell adhesion to endothelial cells and cell invasion. CEACAM6 is also involved in the metastatic cascade process by inducing gain resistance to anoikis of pancreatic adenocarcinoma and colorectal carcinoma cells.

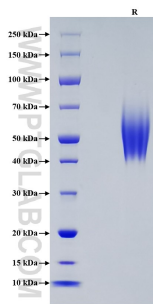
References

- 1.Kuroki M, et al. (2001). Journal of leukocyte biology. 70(4): 543-50
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- 3.Blumenthal RD, et al. (2005). Cancer research. 65(19):8809-8817
- 4.Ordoñez C, et al. (2000). Cancer Res. 60(13):3419-24
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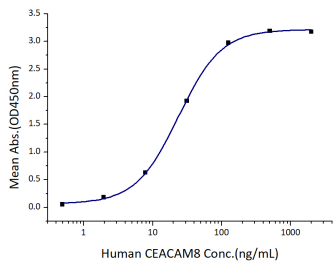
Synonyms

CEACAM6, Carcinoembryonic antigen-related cell adhesion molecule 6, CD66c, CEAL, NCA

Selected Validation Data



Purity of Recombinant Human CEACAM-6 was determined by SDS-PAGE. The protein was resolved in an SDS-PAGE in reducing (R) conditions and stained using Coomassie blue.



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