

## Recombinant Human CEACAM5 Protein (His Tag)

**Catalog Number:** PKSH031272

**Note:** Centrifuge before opening to ensure complete recovery of vial contents.

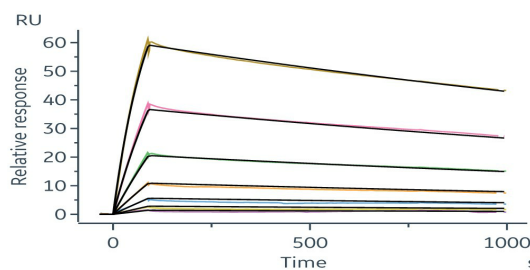
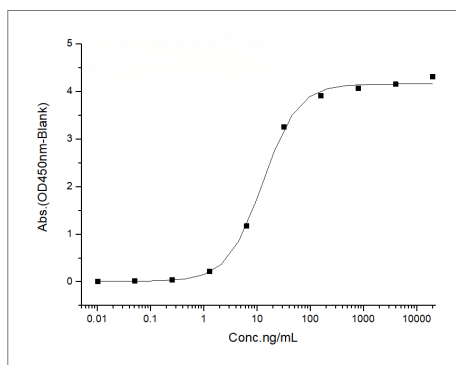
### Description

<b>Species</b>	Human
<b>Source</b>	HEK293 Cells-derived Human CEACAM5 protein Met 1-Ala 685, with an C-terminal His
<b>Calculated MW</b>	72.8 kDa
<b>Observed MW</b>	100-110 kDa
<b>Accession</b>	NP_004354.2
<b>Bio-activity</b>	Not validated for activity

### Properties

<b>Purity</b>	> 95 % as determined by reducing SDS-PAGE.
<b>Endotoxin</b>	< 1.0 EU per µg of the protein as determined by the LAL method.
<b>Storage</b>	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.
<b>Shipping</b>	This product is provided as lyophilized powder which is shipped with ice packs.
<b>Formulation</b>	Lyophilized from sterile PBS, pH 7.4 Normally 5% - 8% trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization. Please refer to the specific buffer information in the printed manual.
<b>Reconstitution</b>	Please refer to the printed manual for detailed information.

### Data



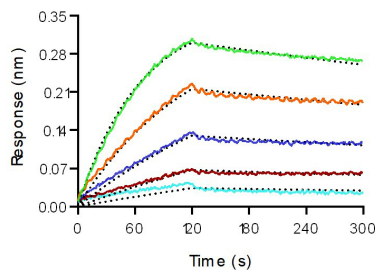
Immobilized Anti-CEA Antibody at 2 µg/mL (100 µL/well) can bind Recombinant Human CEACAM5 / CD66e Protein (His Tag) (Cat: PKSH031272), The EC<sub>50</sub> is 5.5-16 ng/mL. Anti-CEA Antibody, Human IgG1 captured on Protein A chip can bind Recombinant Human CEACAM-5/CD66e Protein, His Tag (Cat: PKSH031272) with an affinity constant of 3.22 nM as determined in an SPR assay (Biacore 8K).

### For Research Use Only

Toll-free: 1-888-852-8623  
Web: [www.elabscience.com](http://www.elabscience.com)

Tel: 1-832-243-6086  
Email: [techsupport@elabscience.com](mailto:techsupport@elabscience.com)

Fax: 1-832-243-6017



Loaded Anti-Human CEACAM5 antibody, human IgG1 on ProA Biosensor, can bind Recombinant Human CEACAM5 Protein, His Tag (Cat: PKSH031272) with an affinity constant of 3.72 nM as determined in a BLI assay (Sartorius Octet Red384) .

## Background

CEACAM5; also known as CEA or D66e; belongs to the large CEACAM subfamily of immunoglobulin superfamily. CEACAM5 is expressed primarily by epithelial cells; and is synthesized as a glycoprotein with a MW of 180 kDa comprising 60% carbohydrate. CEACAM5 contains one Ig-like V-type domain at the N-terminus; followed by six Ig-like C2-type domain and a GPI anchor; and exists as a homodimer. CEACAM5 and CEACAM6 are overexpressed in many cancers and are associated with adhesion and invasion. CEACAM5 can mediate cell-cell adhesion through homotypic and heterotypic interactions. It functions as a homotypic intercellular adhesion molecule and serves as a widely used tumor marker; since it is expressed at higher levels in tumorous tissues than in corresponding normal tissues. CEACAM5 has also been shown to contribute to tumorigenicity by inhibiting cellular differentiation. In addition; CEACAM5 is identified as the host receptor for the Dr family of adhesins of E.Coli; and the binding of E.coli Dr adhesins leads to dissociation of the CEACAM5 homodimer.

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