

## CEACAM6 Protein, Human (Biotinylated, HEK293, His-Avi)

Cat. No.:	HY-P78081
Synonyms:	CEACAM6; CD66c; CEAL; NCA; CEA
Species:	Human
Source:	HEK293
Accession:	P40199 (K35-G320)
Gene ID:	4680
Molecular Weight:	55-75 kDa

### PROPERTIES

Biological Activity	Measured by its binding ability in SPR assay. Human CEACAM-8, His tag immobilized on CM5 Chip can bind Biotinylated Human CEACAM6, His-Avi Tag with an affinity constant of 3.81 $\mu$ M.
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.22 $\mu$ m filtered solution of PBS, pH 7.4. Normally 5% trehalose is added as protectant before lyophilization.
Endotoxin Level	<1 EU/ $\mu$ g, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 $\mu$ g/mL in ddH <sub>2</sub> O.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

### DESCRIPTION

Background	CEACAM6 protein, a cell surface glycoprotein, assumes a pivotal role in cell adhesion and tumor progression. Interactions occur in a calcium- and fibronectin-independent manner, mediating both homophilic and heterophilic cell adhesion with other carcinoembryonic antigen-related cell adhesion molecules like CEACAM5 and CEACAM8. Particularly, heterophilic interaction with CEACAM8 takes place in activated neutrophils, influencing neutrophil adhesion to cytokine-activated endothelial cells. In the context of tumor progression, CEACAM6 operates as an oncogene by positively regulating cell migration, adhesion to endothelial cells, and invasion. Additionally, it contributes to the metastatic cascade by inducing resistance to anoikis in pancreatic adenocarcinoma and colorectal carcinoma cells. CEACAM6 forms homodimers, engaging in homodimerization via its Ig-like V-type domain, and also forms heterodimers with CEACAM8 through their respective Ig-like V-type domains, highlighting its multifaceted role in cell adhesion and cancer-related processes.
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**Caution: Product has not been fully validated for medical applications. For research use only.**

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