

## FITC-Labeled CEACAM5 Protein, Human (HEK293, His, Avi)

Cat. No.:	HY-P701271
Synonyms:	CEACAM-5; CD66e; CEA; Meconium antigen 100
Species:	Human
Source:	HEK293
Accession:	P06731 (K35-A685)
Gene ID:	1048
Molecular Weight:	115-160 kDa

### PROPERTIES

Biological Activity	Immobilized FITC-Labeled Human CEACAM-5, His Tag at 0.5 µg/mL (100 µl/well) on the plate. Dose response curve for Anti-CEACAM5 Antibody, hFc Tag with the EC <sub>50</sub> of 5.5 ng/mL determined by ELISA.
Appearance	Lyophilized powder.
Formulation	Lyophilized from 0.22 µm filtered solution of PBS, pH7.4. Normally trehalose is added as protectant before lyophilization.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH <sub>2</sub> O.
Storage & Stability	Stored at -20°C for 1 year, protect from light. 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	CEACAM5 protein, a cell surface glycoprotein, assumes a multifaceted role in cell adhesion, intracellular signaling, and tumor progression. Functioning as a mediator of both homophilic and heterophilic cell adhesion, CEACAM5 interacts with other carcinoembryonic antigen-related cell adhesion molecules, such as CEACAM6. In the context of tumor progression, CEACAM5 acts as an oncogene, promoting tumor advancement and inducing resistance to anoikis in colorectal carcinoma cells. Additionally, during microbial infection, CEACAM5 serves as a receptor for E. coli Dr adhesins, and the binding of these adhesins results in the dissociation of the CEACAM5 homodimer. These diverse functions underscore the versatility of CEACAM5 in regulating cellular processes and highlight its significance in both physiological and pathological contexts.
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**Caution: Product has not been fully validated for medical applications. For research use only.**

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