

HUMAN CEACAM5 PROTEIN, HIS TAG

Cat.#: 11194

Product Name: Human CEACAM5 Protein

Size: 10 µg, 50 µg and 100 µg

Synonyms: CEACAM-5;D66e;EA;economy antigen 100

Target: CEACAM5

UNIPROT ID: P06731

Description: Recombinant human CEACAM5 protein with C-terminal 6xHis tag

Background: This gene encodes a cell surface glycoprotein that represents the founding member of the carcinoembryonic antigen (CEA) family of proteins. The encoded protein is used as a clinical biomarker for gastrointestinal cancers and may promote tumor development through its role as a cell adhesion molecule. Additionally, the encoded protein may regulate differentiation, apoptosis, and cell polarity. This gene is present in a CEA family gene cluster on chromosome 19. Alternative splicing results in multiple transcript variants.

Species/Host: HEK293

Molecular Weight: The protein has a predicted molecular mass of 72.2 kDa after removal of the signal peptide. The apparent molecular mass of CEACAM5-His is approximately 100-130 kDa due to glycosylation.

Molecular Characterization: CEACAM5(Lys35-Ala685) 6×His tag

Purity: The purity of the protein is greater than 95% as determined by SDS-PAGE and Coomassie blue staining.

Formulation & Reconstitution: Lyophilized from nanodisc solubilization buffer (20 mM Tris-HCl, 150 mM NaCl, pH 8.0). Normally 5% – 8% trehalose is added as protectants before lyophilization.

Storage & Shipping: Store at -20°C to -80°C for 12 months in lyophilized form. After reconstitution, if not intended for use within a month, aliquot and store at -80°C (Avoid repeated freezing and thawing). Lyophilized proteins are shipped at ambient temperature.

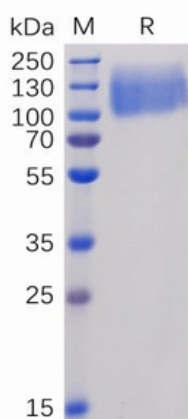


Figure 1. Human CEACAM5 Protein, His Tag on SDS-PAGE under reducing condition.

Human CEACAM5, His Tagged protein ELISA

0.2 µg of CEACAM5, His Tagged protein per well

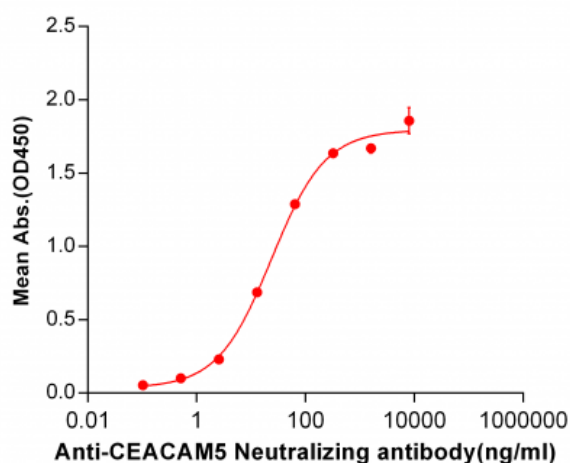


Figure 2. ELISA plate pre-coated by 2 µg/ml (100 µl/well) Human CEACAM5, His tagged protein (11194) can bind Anti-CEACAM5 Antibody 28044 in a linear range of 2.56-320 ng/ml.

