Cat. No. PME100071



PRODUCT INFORMATION

CEACAM5 **Target**

Synonyms CEACAM-5;CD66e;CEA;Meconium antigen 100

Recombinant human CEACAM5 protein with C-**Description**

terminal 6×His tag

Delivery In Stock **Uniprot ID** P06731 **Expression Host HEK293** Tag C-6×His Tag

Molecular

Molecular Weight

Background

CEACAM5(Lys35-Ala685) 6×His tag Characterization

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

Purity

staining.

Lyophilized from sterile PBS, pH 7.4. Normally 5 % Formulation & Reconstitution

- 8% trehalose is added as protectants before lyophilization. Please see Certificate of Analysis for specific instructions of reconstitution.

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

Storage & Shipping at -80°C (Avoid repeated freezing and thawing). Lyophilized proteins are shipped at ambient

temperature.

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.

Usage Research use only

Conjugate Unconjugated





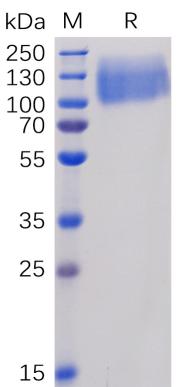


Figure 1. Human CEACAM5 Protein, His Tag on SDS-PAGE under reducing condition.

Human CEACAM5, His Tagged protein ELISA

0.2 µg of CEACAM5, His Tagged protein per well

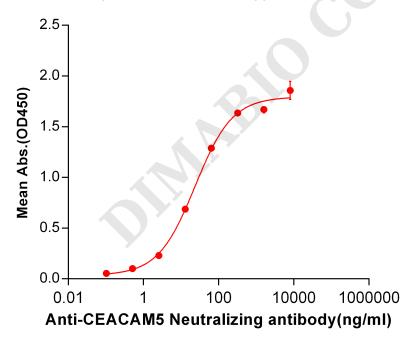


Figure 2. ELISA plate pre-coated by 2 μ g/ml (100 μ l/well) Human CEACAM5, His tagged protein (PME100071) can bind Anti-CEACAM5 Antibody ([getskuurl sku"BME100035"]) in a linear range of 2.56-320 ng/ml.





Human CEACAM5, His Tagged protein ELISA

0.2 μg of Human CEACAM5, His tagged protein per well

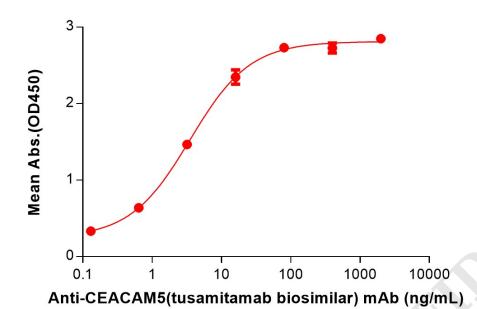
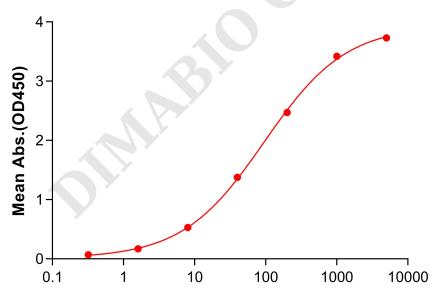


Figure 3. ELISA plate pre-coated by 2 μ g/mL (100 μ L/well) Human CEACAM5 Protein, His Tag (PME100071) can bind Anti-CEACAM5(tusamitamab biosimilar) mAb (BME100195) in a linear range of 0.64–16 ng/mL.

Human CEACAM5, His Tagged protein ELISA

0.2 μg of Human CEACAM5, His tagged protein per well



Biotinylated Anti-CEACAM5 (labetuzumab biosimilar) mAb (ng/mL)

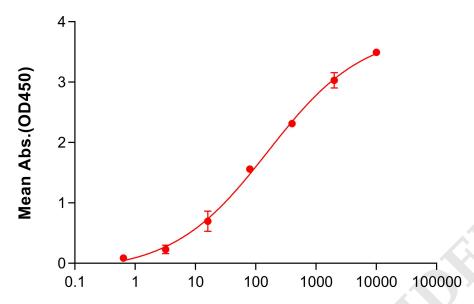
Figure 4. ELISA plate pre-coated by 2 μ g/mL (100 μ L/well) Human CEACAM5 Protein, His Tag (PME100071) can bind Biotinylated Anti-CEACAM5 (labetuzumab biosimilar) mAb (BME100035B) in a linear range of 40–200 ng/mL.





Human CEACAM5, His Tagged protein ELISA

0.2 μg of Human CEACAM5, His tagged protein per well



Biotinylated Anti-CEACAM5(tusamitamab biosimilar) mAb (ng/mL)

Figure 5. ELISA plate pre-coated by 2 μ g/mL (100 μ L/well) Human CEACAM5 Protein, His Tag (PME100071) can bind Biotinylated Anti-CEACAM5(tusamitamab biosimilar) mAb (BME100195B) in a linear range of 40–200 ng/mL.

