

PRODUCT INFORMATION

Clone ID	1B5
Target	CEACAM5
Synonyms	CEACAM-5;CD66e;CEA;Meconium antigen 100
Host Species	Rabbit
Description	Anti-CEACAM5 antibody(1B5), IgG1 Chimeric mAb
Delivery	In Stock
Uniprot ID	P06731
IgG type	Rabbit/Human Fc chimeric IgG1
Clonality	Monoclonal
Reactivity	Human
Applications	WB
Recommended Dilutions	WB 1:1000
Purification	Purified from cell culture supernatant by affinity chromatography
Formulation & Reconstitution	Lyophilized from sterile PBS, pH 7.4. Normally 5 % - 8% trehalose is added as protectants before lyophilization. Please see Certificate of Analysis for specific instructions of reconstitution.
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.
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.
Usage	Research use only
Conjugate	Unconjugated



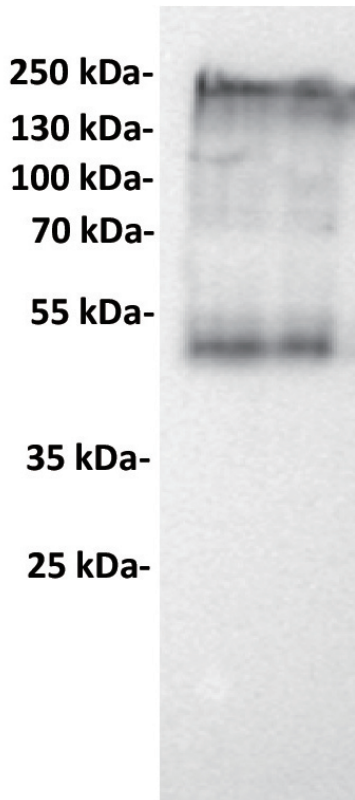


Figure 1. Anti-CEACAM5 antibody (SKU# DMC100120) at 1/1000 dilution

Lane : HT55, whole cell lysate

Secondary : Goat Anti-Rabbit IgG H&L (HRP) at 1/5000 dilution

Predicted band size: 76kDa

Observed band size: 50-250 kDa

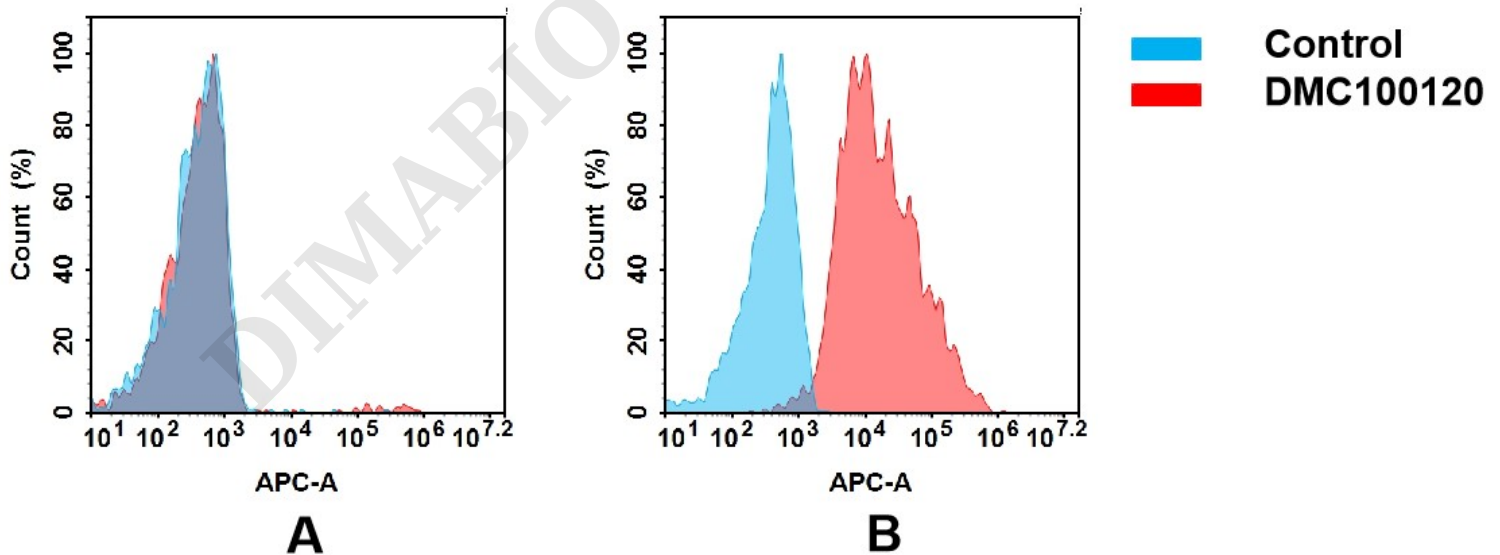


Figure 2. Flow cytometry analysis of antigen binding of anti-human CEACAM5 mAb(DMC100120).

(A) DMC100120 does not bind to CHO-S cells that do not express CEACAM5.

(B) A clear peak shift of DMC100120 was seen compared to the control when incubated with CEACAM5-expressing MKN45 cells, indicating strong binding of DMC100120 to CEACAM5. Antibodies were incubated at 5 µg/mL.

