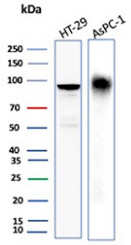
CEACAM6 Antibody / Carcinoembryonic antigen-related cell adhesion molecule 6 [clone CEACAM6/13371R] (V5956)

Catalog No.	Formulation	Size
V5956-100UG	0.2 mg/ml in 1X PBS with 0.05% BSA, 0.05% sodium azide	100 ug
V5956-20UG	0.2 mg/ml in 1X PBS with 0.05% BSA, 0.05% sodium azide	20 ug
V5956SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

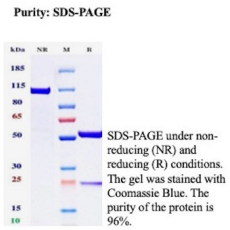
Recombinant RABBIT MONOCLONAL

Bulk quote request

Species Reactivity	Human
Format	Purified
Host	Rabbit
Clonality	Recombinant Rabbit Monoclonal
Isotype	Rabbit IgG, kappa
Clone Name	CEACAM6/13371R
UniProt	P40199
Localization	Apical cell membrane, Cell membrane, Cell surface
Applications	Flow Cytometry: 1-2ug/million cells Immunohistochemistry (FFPE): 1-2ug/ml Western Blot: 2-4ug/ml
Limitations	This CEACAM6/Carcinoembryonic antigen-related cell adhesion molecule 6 antibody is available for research use only.

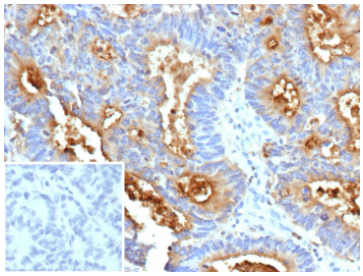


Western blot analysis of CEACAM6 antibody (clone CEACAM6/13371R). Whole cell lysates from human HT-29 and AsPC-1 cells were resolved by SDS-PAGE and probed with CEACAM6 antibody (clone CEACAM6/13371R), demonstrating a prominent immunoreactive band at approximately 90-100 kDa consistent with the predicted molecular weight of glycosylated CEACAM6. The observed band pattern aligns with known expression of CEACAM6 in colorectal and pancreatic carcinoma cell lines.



SDS-PAGE under non-reducing (NR) and reducing (R) conditions. The gel was stained with Coomassie Blue. The purity of the protein is 96%.

SDS-PAGE Analysis of Purified CEACAM6 Recombinant Rabbit Monoclonal Antibody (CEACAM6/13371R). Confirmation of Purity and Integrity of Antibody.



Immunohistochemistry analysis of CEACAM6 / CD66c antibody (clone CEACAM6/13371R). Formalin-fixed, paraffin-embedded human colon carcinoma tissue shows strong membranous and apical cytoplasmic brown chromogenic staining in tumor epithelial cells, consistent with CEACAM6 expression. The inset image shows PBS used instead of primary antibody as a negative control and demonstrates absence of specific staining. Heat-induced epitope retrieval was performed by boiling tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95oC followed by cooling at RT for 20 minutes.

Description

CEACAM6 antibody (clone CEACAM6/13371R) targets Carcinoembryonic Antigen Related Cell Adhesion Molecule 6, a glycosylphosphatidylinositol-anchored cell surface glycoprotein encoded by the human CEACAM6 gene. CEACAM6, also widely referred to as CD66c in immunology literature, is a member of the carcinoembryonic antigen related cell adhesion molecule family involved in intercellular adhesion and immune regulation. CEACAM6 antibody is commonly used in studies of epithelial biology, tumor progression, and inflammatory signaling because CEACAM6 expression is frequently elevated in multiple carcinomas.

CEACAM6 is localized to the plasma membrane via a GPI anchor and mediates homophilic and heterophilic cell-cell interactions. In normal tissues, CEACAM6 is expressed on granulocytes and certain epithelial cells, including those of the gastrointestinal and respiratory tracts. Overexpression of CEACAM6 has been reported in colorectal, pancreatic, gastric, breast, and lung cancers, where it has been associated with tumor cell adhesion, invasion, and resistance to apoptosis. CEACAM6 antibody clone CEACAM6/13371R supports detection of CEACAM6 expression in epithelial tumors and immune cell populations in research applications.

Functionally, CEACAM6 participates in signaling pathways that influence cell survival, proliferation, and metastatic potential. Increased CEACAM6 expression has been linked to enhanced tumor cell motility and reduced anoikis sensitivity, contributing to cancer progression. Because of its cell surface localization and tumor-associated overexpression, CEACAM6 antibody is frequently applied in cancer biology and translational oncology research.

Structurally, CEACAM6 contains immunoglobulin-like extracellular domains characteristic of the CEACAM family and lacks a transmembrane domain due to its GPI anchorage. A CEACAM6 antibody such as clone CEACAM6/13371R is suitable for detecting CEACAM6 expression in epithelial tissues and tumor specimens in research settings.

Application Notes

1. Optimal dilution of the CEACAM6/Carcinoembryonic antigen-related cell adhesion molecule 6 antibody should be determined by the researcher.

2. This CEACAM6/Carcinoembryonic antigen-related cell adhesion molecule 6 antibody is recombinantly produced by expression in CHO cells.

Immunogen

Recombinant CEACAM6 protein was used as the immunogen for the CEACAM6/Carcinoembryonic antigen-related cell

adhesion molecule 6 antibody.

Storage

CEACAM6/Carcinoembryonic antigen-related cell adhesion molecule 6 antibody with sodium azide - store at 2 to 8oC; antibody without sodium azide - store at -20 to -80oC.

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