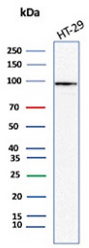
CD66c Antibody / CEACAM6 [clone CEACAM6/13372R] (V5957)

Catalog No.	Formulation	Size
V5957-100UG	0.2 mg/ml in 1X PBS with 0.05% BSA, 0.05% sodium azide	100 ug
V5957-20UG	0.2 mg/ml in 1X PBS with 0.05% BSA, 0.05% sodium azide	20 ug
V5957SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

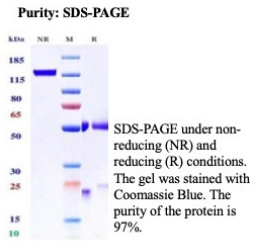
Recombinant RABBIT MONOCLONAL

Bulk quote request

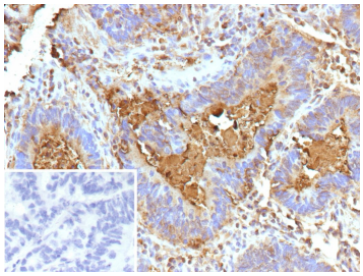
Species Reactivity	Human
Format	Purified
Host	Rabbit
Clonality	Recombinant Rabbit Monoclonal
Isotype	Rabbit IgG, kappa
Clone Name	CEACAM6/13372R
UniProt	P40199
Localization	Apical cell membrane, Cell membrane, Cell surface
Applications	Flow Cytometry : 1-2ug/million cells Immunohistochemistry (FFPE) : 1-2ug/ml Western Blot : 2-4ug/ml
Limitations	This CD66c/CEACAM6 antibody is available for research use only.



Western blot testing of CD66c / CEACAM6 antibody in human HT-29 clel lysate. A distinct band is observed at approximately 90-100 kDa in human HT-29 cell lysate, consistent with the predicted molecular weight of CEACAM6 and its known glycosylated form. Clone CEACAM6/13372R detects CD66c protein under reducing conditions, demonstrating specific recognition of CEACAM6 in human colorectal adenocarcinoma cells.



SDS-PAGE Analysis of Purified CD66c/CEACAM6 antibody (clone CEACAM6/13372R). Confirmation of Purity and Integrity of Antibody.



Application of CD66c / CEACAM6 antibody in immunohistochemistry. 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 in colorectal adenocarcinoma. Clone CEACAM6/13372R demonstrates specific staining following heat-induced epitope retrieval in pH 9 Tris-EDTA buffer. The inset negative control using PBS instead of primary antibody shows no specific staining.

Description

CD66c antibody recognizes Carcinoembryonic antigen-related cell adhesion molecule 6, encoded by the human CEACAM6 gene. CEACAM6, also known as CD66c, NCA-90, or nonspecific cross-reacting antigen, is a glycosylphosphatidylinositol-anchored cell surface glycoprotein and a member of the carcinoembryonic antigen family within the immunoglobulin superfamily. It is predominantly localized to the plasma membrane, where it participates in cell-cell adhesion, modulation of signaling pathways, and regulation of epithelial architecture. CD66c antibody is widely used to study epithelial differentiation and tumor-associated antigen expression in a variety of tissues.

CEACAM6 is physiologically expressed in granulocytes and in epithelial cells of the gastrointestinal tract, pancreas, and biliary system. In normal tissues, expression is typically restricted to the apical surface of epithelial cells, reflecting its role in luminal cell interactions and barrier function. Functionally, CEACAM6 contributes to intercellular adhesion and can influence intracellular signaling cascades that regulate proliferation, survival, and migration. Its overexpression has been associated with enhanced resistance to apoptosis and altered integrin-mediated signaling, supporting tumor cell survival and metastatic potential.

In oncology research, CD66c antibody is frequently applied to evaluate CEACAM6 upregulation in colorectal carcinoma, pancreatic adenocarcinoma, gastric carcinoma, lung adenocarcinoma, and other epithelial malignancies. Increased CEACAM6 expression has been correlated with tumor progression, invasion, and poor clinical outcome in several studies. Because CEACAM6 is a surface glycoprotein with limited expression in most non-epithelial tissues, it serves as a useful marker for epithelial-derived tumors and for distinguishing specific carcinoma subtypes in diagnostic pathology research.

Clone CEACAM6/13372R is a recombinant rabbit monoclonal antibody designed to detect CD66c expression in research applications. As a recombinant monoclonal antibody, it is produced by expression of a defined antibody sequence in cultured cells, providing batch-to-batch consistency and high specificity. A CD66c antibody such as clone CEACAM6/13372R is suitable for detecting CEACAM6 protein in immunohistochemistry, western blot, and other laboratory assays, enabling detailed investigation of epithelial biology and tumor-associated antigen expression.

Application Notes

1. Optimal dilution of the CD66c/CEACAM6 antibody should be determined by the researcher.

2. This CD66c/CEACAM6 antibody is recombinantly produced by expression in CHO cells.

Immunogen

Recombinant CEACAM6 protein was used as the immunogen for the CD66c/CEACAM6 antibody.

Storage

CD66c/CEACAM6 antibody with sodium azide - store at 2 to 8oC; antibody without sodium azide - store at -20 to -80oC.