abcam

ab275675

APC Anti-CEACAM6 antibody [408]

Recombinant

Key facts

Isotype	IgG
Host species	Rabbit
Conjugation	APC
Excitation/Emission	Ex: 650nm, Em: 660nm
Storage buffer	Preservative: 0.09% Sodium azide Constituents: 0.5% BSA
Form	Liquid
Clonality	Monoclonal
Immunogen	Recombinant Full Length Protein corresponding to Human CEACAM6. Database link P40199
Clone number	408
Purification technique	Affinity purification Protein A
Concentration	0.1 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →

Reactivity data

Flow Cyt

Tested

Species	Human

Dilution info	-
Notes	10 µl/Test

Target data

See full target information CEACAM6

Function	Cell surface glycoprotein that plays a role in cell adhesion and tumor progression (PubMed:10910050, PubMed:11590190, PubMed:1378450, PubMed:16204051, PubMed:2022629, PubMed:2803308, PubMed:8776764). Intercellular adhesion occurs in a calcium- and fibronectin-independent manner (PubMed:16204051, PubMed:2022629). Mediates homophilic and heterophilic cell adhesion with other carcinoembryonic antigen-related cell adhesion molecules, such as CEACAM5 and CEACAM8 (PubMed:11590190, PubMed:16204051, PubMed:2022629, PubMed:2803308, PubMed:8776764). Heterophilic interaction with CEACAM8 occurs in activated neutrophils (PubMed:8776764). Plays a role in neutrophil adhesion to cytokine-activated endothelial cells (PubMed:1378450). Plays a role in cell migration and cell adhesion to endothelial cells (PubMed:16204051).

Storage

Shipped at conditions	Blue Ice
Appropriate short-term storage conditions	+4°C
Appropriate long-term storage conditions	+4°C
Storage information	Do Not Freeze, Store in the dark

Supplementary info

This supplementary information is collated from multiple sources and compiled automatically.

Activity summary	CEACAM6 also known as 9a6 CEACAM-6 and 1h7 is a cell surface glycoprotein weighing approximately 35-40 kDa. The protein plays a mechanical role as an intercellular adhesion molecule. It displays broad expression across multiple tissues with high levels found in epithelial cells of the gastrointestinal tract respiratory tract and in leukocytes.
Biological function summary	CEACAM6 acts in cell signaling and adhesion processes. It often forms complexes with other members of the CEACAM family such as CEACAM5. This protein is involved in the regulation of cell-cell adhesion which impacts cell migration and organization. It also influences immune reactions by modulating the interactions between pathogens and host cells.

Pathways	CEACAM6 integrates into pathways associated with cell adhesion and immune regulation. It engages in the PI3K-Akt signaling pathway tightly interacting with proteins such as CEACAM1 and CEACAM5. Through these interactions CEACAM6 plays an essential role in cell survival proliferation and immune responses.
Associated diseases and disorders	CEACAM6 shows significant links with cancer especially colorectal and pancreatic cancers. Overexpression of this protein correlates with tumor progression and metastasis. Additionally in inflammatory bowel disease CEACAM6 association with CEACAM7 often results in altered epithelial barrier function contributing to disease pathogenesis.

Product promise

Tested

We have tested this species and application combination and it works. It is covered by our product promise.

Expected

We have not tested this specific species and application combination in-house, but expect it will work. It is covered by our product promise.

Predicted

This species and application combination has not been tested, but we predict it will work based on strong homology. However, this combination is not covered by our product promise.

Not recommended

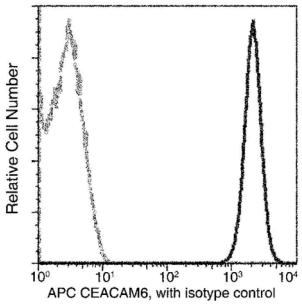
We do not recommend this combination. It is not covered by our product promise.

We are dedicated to supporting your work with high quality reagents and we are here for you every step of the way should you need us.

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1 product image



Flow Cytometry - APC Anti-CEACAM6 antibody [408] (ab275675)

CEACAM6 Flow Cytometry staining using rabbit Anti-CEACAM6 antibody

Flow cytometric analysis of human whole blood granulocytes labeling CEACAM6 with ab275675 at 10 µl/Test (Black) compared with isotype control (Grey). The histogram were derived from gated events with the forward and side light-scatter characteristics of viable granulocytes.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.