abcam

ab275676

# PE Anti-CEACAM6 antibody [408]

Recombinant

## Key facts

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|---|---|
| **Isotype** | IgG |
| **Host species** | Rabbit |
| **Conjugation** | PE |
| **Excitation/Emission** | Ex: 480;565nm, Em: 578nm |
| **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<br>Batch concentration finder → |

## Reactivity data

## Flow Cyt

**Tested**

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| **Species** | Human |

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| **Dilution info** | - |
| **Notes** | 10 µl/Test |

## Target data

See full target information CEACAM6

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|---|---|
| **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

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| **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.

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|---|---|
| **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. |

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| **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**

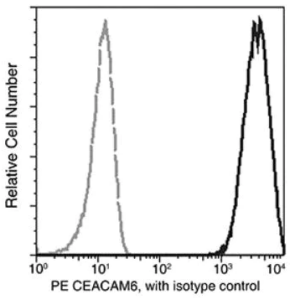
We do not recommend this combination. It is not covered by our product promise.

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.

In the unlikely event of one of our products not working as expected, you are covered by our product promise.

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## 1 product image




## Flow Cytometry - PE Anti-CEACAM6 antibody [408] (ab275676)

CEACAM6 Flow Cytometry staining using rabbit Anti-CEACAM6 antibody

Flow cytometric analysis of human whole blood granulocytes labeling CEACAM6 with ab275676 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'.