abcam

ab283275

Alexa Fluor® 488 Anti-CEACAM6 antibody [EPR23956-80]

Recombinant | RabMAb

Key facts

Isotype	IgG
Host species	Rabbit
Conjugation	Alexa Fluor® 488
Excitation/Emission	Ex: 495nm, Em: 519nm
Storage buffer	pH: 7.2 - 7.4 Preservative: 0.02% Sodium azide Constituents: PBS, 30% Glycerol (glycerin, glycerine), 1% BSA
Form	Liquid
Clonality	Monoclonal
Immunogen	The exact immunogen used to generate this antibody is proprietary information.
Clone number	EPR23956-80
Purification technique	Affinity purification Protein A
Concentration	0.5 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →

Reactivity data

Flow Cyt

Tested

Species	Human
Dilution info	1/500
Notes	-

ICC/IF

Expected

Species	Human
Dilution info	Use at an assay dependent concentration.
Notes	-

IHC-P

Expected

Species	Human
Dilution info	Use at an assay dependent concentration.
Notes	-

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 duration	1-2 weeks
Appropriate short-term storage conditions	+4°C
Appropriate long-term storage conditions	-20°C
Aliquoting information	Upon delivery aliquot
Storage information	Avoid freeze / thaw cycle, Store in the dark

Notes

Patented technology
Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb® patents.

What are the advantages of a recombinant monoclonal antibody?
This product is a recombinant monoclonal antibody, which offers several advantages including:

- High batch-to-batch consistency and reproducibility
- Improved sensitivity and specificity
- Long-term security of supply
- Animal-free batch production

For more information, read more on recombinant antibodies.

Alexa Fluor® is a registered trademark of Molecular Probes, Inc, a Thermo Fisher Scientific Company. The Alexa Fluor® dye included in this product is provided under an intellectual property license from Life Technologies Corporation. As this product contains the Alexa Fluor® dye, the purchase of this product conveys to the buyer the non-transferable right to use the purchased product and components of the product only in research conducted by the buyer (whether the buyer is an academic or for-profit entity). As this product contains the Alexa Fluor® dye the sale of this product is expressly conditioned on the buyer not using the product or its components, or any materials made using the product or its components, in any activity to generate revenue, which may include, but is not limited to use of the product or its components: in manufacturing; (ii) to provide a service, information, or data in return for payment (iii) for therapeutic, diagnostic or prophylactic purposes; or (iv) for resale, regardless of whether they are sold for use in research. For information on purchasing a license to this product for purposes other than research, contact Life Technologies Corporation, 5781 Van Allen Way, Carlsbad, CA 92008 USA or outlicensing@thermofisher.com.

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

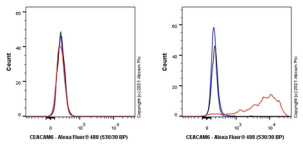
We do not recommend this combination. It is not covered by our product promise.

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.

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

Full details and terms and conditions can be found here:
Terms & Conditions.

1 product image



Flow Cytometry - Alexa Fluor® 488 Anti-CEACAM6 antibody [EPR23956-80] (ab283275)

CEACAM6 Flow Cytometry staining using rabbit Anti-CEACAM6 antibody

Flow cytometric analysis of LNCaP (Human prostate carcinoma epithelial cells) (Left), BxPC-3 (Human pancreas adenocarcinoma epithelial cells) (Right) cells labelling CEACAM6 with ab283275 at 1/500 dilution (0.1 µg) (red) compared with a Rabbit monoclonal isotype control - Alexa Fluor® 488 (Black) and an unlabelled control (cells without incubation with primary antibody and secondary antibody) (Blue).
Negative control: LNCaP (PMID: 16204051).

Gated on viable cells.

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