abcam

ab181979

Anti-CEECAM1 antibody [EPR13744]

Recombinant | RabMAb

Key facts

Isotype	IgG
Host species	Rabbit
Storage buffer	Preservative: 0.01% Sodium azide Constituents: PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA
Form	Liquid
Clonality	Monoclonal
Immunogen	The exact immunogen used to generate this antibody is proprietary information.
Clone number	EPR13744
Purity	Tissue culture supernatant

Reactivity data

WB

Tested

Species	Human
Dilution info	1/1000 - 1/10000
Notes	-

Predicted

Species	Mouse, Rat

Dilution info	-
Notes	-

Flow Cyt (Intra)

Tested

Species	Human
Dilution info	1/300
Notes	ab172730 - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.

Predicted

Species	Mouse, Rat
Dilution info	-
Notes	-

Target data

See full target information CERCAM

Function	Probable cell adhesion protein involved in leukocyte transmigration across the blood-brain barrier. Does not express any beta-galactosyltransferase activity in vitro.

Storage

Shipped at conditions	Conditional Ambient
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

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.

Supplementary info

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

Activity summary	CEECAM1 also known as Carcinoembryonic Antigen-Related Cell Adhesion Molecule 1 has a molecular mass of approximately 37-45 kDa. This glycoprotein belongs to the immunoglobulin superfamily and facilitates cell adhesion processes. CEECAM1 is mainly expressed in epithelial cells of several tissues including the gastrointestinal tract liver and lungs. It plays roles in cellular adhesion and signaling which are important for maintaining structural integrity and communication between cells.
Biological function summary	CEECAM1 participates in modulating immune responses and cellular proliferation. This protein interacts with other molecules at the cell surface to form complexes that influence cell signaling pathways. CEECAM1's involvement in processes such as cell adhesion and migration makes it significant in tissue architecture and homeostasis. Through these functions CEECAM1 has an influence on both normal physiological processes and pathological conditions.
Pathways	CEECAM1 is actively involved in the MAPK and PI3K/AKT signaling pathways. These pathways are critical for transmitting signals related to growth survival and differentiation of cells. In the MAPK pathway CEECAM1 interacts with proteins like ERK which regulates various cellular activities. Within the PI3K/AKT pathway CEECAM1 can influence activity impacting cell cycle progression and apoptosis. Its interactions within these pathways link CEECAM1 to a broader network of cellular functions.
Associated diseases and disorders	CEECAM1 has associations with cancer progression and inflammatory diseases. In various cancers such as colorectal cancer CEECAM1 expression levels can change influencing tumor progression and metastasis. It often interacts with proteins like CEA (Carcinoembryonic Antigen) which is involved in tumorigenesis. In inflammatory diseases CEECAM1's role in modulating immune responses can alter inflammatory pathways affecting tissue damage and repair mechanisms.

Understanding CEECAM1's role in these diseases continues to be an area of active research.

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

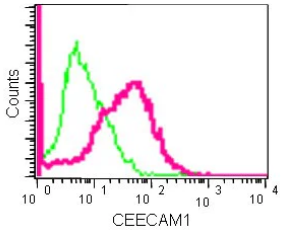
We do not recommend this combination. It is not covered by our product promise.

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.

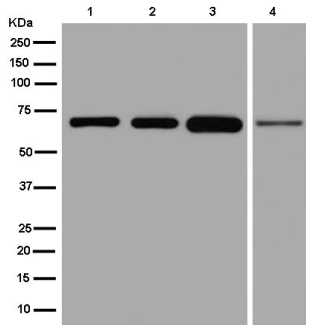
2 product images



Flow Cytometry (Intracellular) - Anti-CEECAM1 antibody [EPR13744] (ab181979)

CEECAM1 Flow Cytometry (Intracellular) staining using rabbit Anti-CEECAM1 antibody

Intracellular flow cytometric analysis of 2% paraformaldehyde-fixed 293 cells labeling CEECAM1 with ab181979 at 1/300 dilution (red) compared to a Rabbit monoclonal IgG Isotype control (greeen), followed by Goat anti rabbit IgG (FITC) secondary antibody at 1/150 dilution.



Western blot - Anti-CEECAM1 antibody [EPR13744] (ab181979)

CEECAM1 Western blot staining using rabbit Anti-CEECAM1 antibody

All lanes:
Western blot - Anti-CEECAM1 antibody [EPR13744] (ab181979) at 1/10000 dilution

Lane 1:
Human fetal brain lysate at 20 µg

Lane 2:
Jurkat cell lysate at 20 µg

Lane 3:
293 cell lysate at 20 µg

Lane 4:
U87-MG cell lysate at 20 µg

Secondary

All lanes:
Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugate at 1/1000 dilution

Predicted band size: 68 kDa

Observed band size: 68 kDa

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