abcam

ab59626

Anti-CEACAM20 antibody [HT-12D8]

Key facts

Isotype	IgG1
Host species	Mouse
Storage buffer	pH: 7.2 Constituents: PBS
Form	Liquid
Clonality	Monoclonal
Immunogen	The exact immunogen used to generate this antibody is proprietary information.
Carrier free	Yes
Clone number	HT-12D8
Purification technique	Affinity purification Protein G
Specificity	ab59626 does not react with CEACAM1, CEACAM3-8 or CEACAM19-21.
Concentration	2 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →
Purification notes	ab59626 was purified by protein G affinity chromatography from cell culture supernatants.

Reactivity data

Flow Cyt

Tested

Species	Transfected cell line

Dilution info	1.2 µg for 10^6 Cells
Notes	ab170190 - Mouse monoclonal IgG1, is suitable for use as an isotype control with this antibody.

Predicted

Species	Human
Dilution info	-
Notes	-

ICC/IF

Tested

Species	Transfected cell line
Dilution info	1 µg/cells for 6 µg/cells
Notes	-

Predicted

Species	Human
Dilution info	-
Notes	-

Target data

See full target information CEACAM20

Function	Together with the tyrosine-protein kinase SYK, enhances production of the cytokine CXCL8/IL-8 via the NFKB pathway and may thus have a role in the intestinal immune response.

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

Supplementary info

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

Activity summary	CEACAM20 also known as carcinoembryonic antigen-related cell adhesion molecule 20 is a member of the CEACAM family of proteins. It has a molecular weight of approximately 32 kDa. This protein is expressed mainly in epithelial tissues including in the gastrointestinal tract and lungs. Its expression is often context-dependent appearing in specific tissues during particular developmental stages or conditions. CEACAM proteins in general play roles in cell signaling and cell adhesion.
Biological function summary	CEACAM20 contributes to processes such as cell-cell communication and immune response modulation. It may form part of a larger complex with other CEACAM proteins engaging in homo- or heterophilic interactions which help mediate its role in cellular adhesion. These interactions can affect immune cell activation and the epithelial tissue integrity where it is expressed hinting at its involvement in maintaining tissue function under various physiological conditions.
Pathways	CEACAM20 plays roles in the immune response and epithelial cell signaling pathways. It interacts closely with other CEACAM family proteins such as CEACAM1 and CEACAM8 which are involved in similar pathways. These interactions likely influence the recruitment and activation of immune cells. Through these pathways CEACAM20 helps with communication between cells in the immune system and epithelial layers aiding in effective response mechanisms and barrier protection.
Associated diseases and disorders	Increased or altered expression of CEACAM20 has been linked to inflammatory diseases and cancer. In inflammatory bowel disease its expression can impact epithelial function and immune response potentially exacerbating the condition. In cancer particularly colorectal cancer CEACAM20's interaction with proteins such as CEACAM1 could influence tumor growth and immune evasion. Understanding these interactions may provide insight into potential therapeutic targets for these conditions.

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.

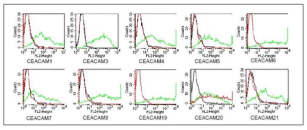
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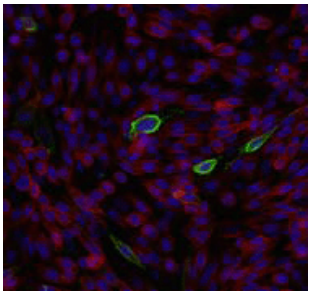
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2 product images



Flow Cytometry - Anti-CEACAM20 antibody [HT-12D8] (ab59626)

BOSC23 cells were transiently transfected with expression vectors containing either the cDNA of CEACAM1, CEACAM3-8 or CEACAM19-21. Expression of the constructs was tested with monoclonal antibodies known to recognize the corresponding proteins (CEACAM1, 3, 4, 5 and 6: D14HD11; CEACAM7: BAC2; CEACAM8: Tet2; CEACAM19,21: a-myc; CEACAM20: a-flag; green curves). An irrelevant monoclonal antibody served as a negative control (black curves). For specificity testing, protein G purified HT-12D8 (ab59626) was tested on all CEACAM transfectants. A positive signal was obtained onlywith CEACAM20 transfected cells (red curve).



Immunocytochemistry/ Immunofluorescence - Anti-CEACAM20 antibody [HT-12D8] (ab59626)

Spectral Confocal Microscopy of CHO cells using ab59626 at 1ug/10^6 cells. CHO cells were transiently transfected with an expression vector encoding CEACAM20. Binding of HT-12D8 (ab59626) was visualized with a FITC-conjugated secondary antibody (green). Actin filaments are labeled with Alexa Fluor-555 Phalloidin (red). Cell nuclei are stained with DAPI (blue).

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