

## Product datasheet

### Anti-CEACAM20 antibody [HT-12D8] ab59626

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#### Overview

<b>Product name</b>	Anti-CEACAM20 antibody [HT-12D8]
<b>Description</b>	Mouse monoclonal [HT-12D8] to CEACAM20
<b>Host species</b>	Mouse
<b>Specificity</b>	ab59626 does not react with CEACAM1, CEACAM3-8 or CEACAM19-21.
<b>Tested applications</b>	<b>Suitable for:</b> Flow Cyt, ICC/IF
<b>Species reactivity</b>	<b>Reacts with:</b> Human, Recombinant fragment
<b>Immunogen</b>	Other Immunogen Type corresponding to Human CEACAM20. cDNA encoding human CEACAM20
<b>Positive control</b>	FACS: BOSC23 cells
<b>General notes</b>	<p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&amp;As</p>

#### Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term.
<b>Storage buffer</b>	pH: 7.20 Constituent: PBS
<b>Purity</b>	Protein G purified
<b>Purification notes</b>	ab59626 was purified by protein G affinity chromatography from cell culture supernatants.
<b>Clonality</b>	Monoclonal
<b>Clone number</b>	HT-12D8
<b>Isotype</b>	IgG1

## Applications

### The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab59626 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
Flow Cyt		Use 1.2µg for 10 <sup>6</sup> cells. <b>ab170190</b> - Mouse monoclonal IgG1, is suitable for use as an isotype control with this antibody.
ICC/IF		Use 1µg for 10 <sup>6</sup> cells.

## Target

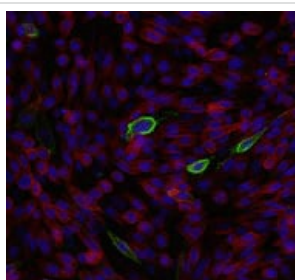
### Relevance

CEA-related cell adhesion molecule 20 (CEACAM20) belongs to the carcinoembryonic antigen (CEA) gene family. It encodes a putative glycoprotein which is membrane-bound via a transmembrane domain. The CEACAM20 protein contains a single N domain followed by 4 immunoglobulin-like A (A1, A2) and B (B1, B2) domains. Expression of CEACAM20 can be found in tissues of prostate, testis, duodenum and small intestine with highest expression in prostate. The function of CEACAM family members varies widely: they function as cell adhesion molecules, tumor suppressors, regulators of lymphocyte and dendritic cell activation, receptors of Neisseria species and other bacteria. High expression of CEACAM20 in tissue of prostate carcinoma and in prostate carcinoma cell lines suggest that CEACAM20 can be used as a tumor marker.

### Cellular localization

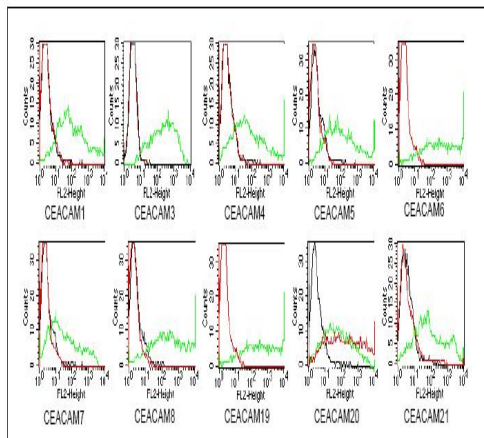
Membrane; Single-pass type I membrane protein

## Images



Spectral Confocal Microscopy of CHO cells using ab59626 at 1µg/10<sup>6</sup> 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).

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



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 only with CEACAM20 transfectants (red curve).

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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