

## Product datasheet

# Anti-CEACAM1 antibody [EPR4048] ab108390

Recombinant RabMAb

[1 References](#) [5 Images](#)

### Overview

<b>Product name</b>	Anti-CEACAM1 antibody [EPR4048]
<b>Description</b>	Rabbit monoclonal [EPR4048] to CEACAM1
<b>Host species</b>	Rabbit
<b>Tested applications</b>	<b>Suitable for:</b> WB, IHC-P <b>Unsuitable for:</b> Flow Cyt, ICC or IP
<b>Species reactivity</b>	<b>Reacts with:</b> Human
<b>Immunogen</b>	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
<b>Positive control</b>	HepG2 cell lysate, A549 cell lysate, Human fetal liver tissue lysate, Human kidney tissue, Human liver tissue.
<b>General notes</b>	<p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none"> <li>- High batch-to-batch consistency and reproducibility</li> <li>- Improved sensitivity and specificity</li> <li>- Long-term security of supply</li> <li>- Animal-free production</li> </ul> <p>For more information <a href="#">see here</a>.</p> <p>Our RabMAb<sup>®</sup> technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to <a href="#">RabMAb<sup>®</sup> patents</a>.</p> <p>Mouse, Rat: We have preliminary internal testing data to indicate this antibody may not react with these species. Please contact us for more information.</p>

### Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Store at -20°C. Stable for 12 months at -20°C.
<b>Storage buffer</b>	pH: 7.20 Preservative: 0.05% Sodium azide Constituents: 0.1% BSA, 40% Glycerol (glycerin, glycerine), 9.85% Tris glycine, 50% Tissue culture supernatant
<b>Purity</b>	Protein A purified

<b>Clonality</b>	Monoclonal
<b>Clone number</b>	EPR4048
<b>Isotype</b>	IgG

## Applications

**The Abpromise guarantee** Our [Abpromise guarantee](#) covers the use of ab108390 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
WB		1/1000 - 1/10000. Predicted molecular weight: 58 kDa.
IHC-P		1/100 - 1/250. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.

**Application notes** Is unsuitable for Flow Cyt, ICC or IP.

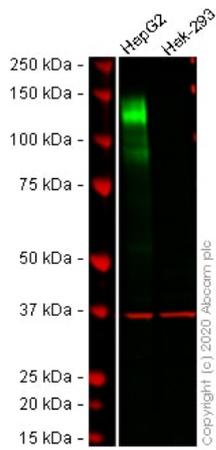
## Target

**Sequence similarities** Belongs to the immunoglobulin superfamily. CEA family.  
Contains 3 Ig-like C2-type (immunoglobulin-like) domains.  
Contains 1 Ig-like V-type (immunoglobulin-like) domain.

**Cellular localization** Secreted; Cell membrane and Cell membrane. Localizes to sites of cell-cell contact.

**Form** There are 11 isoforms produced by alternative splicing. Isoform 1 = BGP<sub>a</sub>; CEACAM1-4L; TM1-CEA; Isoform 2 = BGP<sub>g</sub>; CEACAM1-4C1; Isoform 3 = BGP<sub>h</sub>; CEACAM1-3; Isoform 4 = BGP<sub>i</sub>; CEACAM1-3C2; Isoform 5 = BGP<sub>y</sub>; CEACAM1-3AL; Isoform 6 = BGP<sub>b</sub>; CEACAM1-3L; TM2-CEA; Isoform 7 = BGP<sub>x</sub>; CEACAM1-1L; Isoform 8 = BGP<sub>c</sub>; CEACAM1-4S; TM3-CEA; Isoform 9 = BGP<sub>z</sub>; CEACAM1-3AS and Isoform 11 = BGP<sub>d</sub>; CEACAM1-3S.

## Images



Western blot - Anti-CEACAM1 antibody [EPR4048] (ab108390)

**All lanes :** Anti-CEACAM1 antibody [EPR4048] (ab108390) at 1/1000 dilution

**Lane 1 :** HepG2 cell lysate

**Lane 2 :** HEK-293 cell lysate

Lysates/proteins at 20 µg per lane.

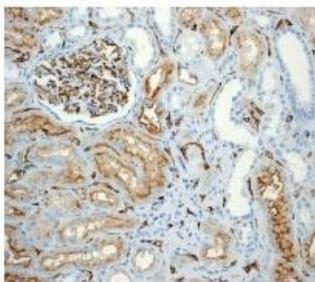
Performed under reducing conditions.

**Predicted band size:** 58 kDa

**Observed band size:** 45 kDa

**Lanes 1 - 2:** Merged signal (red and green). Green - ab108390 observed at 125 kDa. Red - loading control [ab8245](#) (Mouse anti-GAPDH antibody [6C5]) observed at 37kDa.

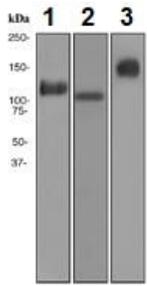
ab108390 was shown to react with CEACAM1 in western blot. Membranes were blocked in 3% milk in TBS-T (0.1% Tween®) before incubation with ab108390 and [ab8245](#) (Mouse anti-GAPDH antibody [6C5]) overnight at 4°C at a 1 in 1000 dilution and a 1 in 20000 dilution respectively. Blots were incubated with Goat anti-Rabbit IgG H&L (IRDye® 800CW) preabsorbed ([ab216773](#)) and Goat anti-Mouse IgG H&L (IRDye® 680RD) preabsorbed ([ab216776](#)) secondary antibodies at 1 in 20000 dilution for 1 hour at room temperature before imaging.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CEACAM1 antibody [EPR4048] (ab108390)

ab108390, at 1/100 dilution, staining CEACAM1 in Human kidney tissue by immunohistochemistry.

Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.



Western blot - Anti-CEACAM1 antibody [EPR4048] (ab108390)

**All lanes :** Anti-CEACAM1 antibody [EPR4048] (ab108390) at 1/1000 dilution

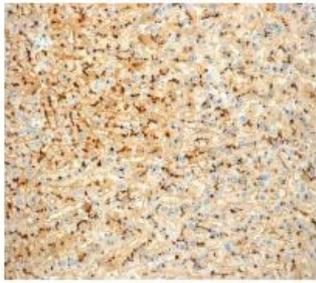
**Lane 1 :** HepG2 cell lysate

**Lane 2 :** Human fetal liver tissue lysate

**Lane 3 :** A549 cell lysate

Lysates/proteins at 10 µg per lane.

**Predicted band size:** 58 kDa



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CEACAM1 antibody [EPR4048] (ab108390)

ab108390, at 1/100 dilution, staining CEACAM1 in Human liver tissue by immunohistochemistry.

Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.

### Why choose a recombinant antibody?

 <p><b>Research with confidence</b> Consistent and reproducible results</p>	 <p><b>Long-term and scalable supply</b> Recombinant technology</p>
 <p><b>Success from the first experiment</b> Confirmed specificity</p>	 <p><b>Ethical standards compliant</b> Animal-free production</p>

Anti-CEACAM1 antibody [EPR4048] (ab108390)

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

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