

Anti-CEACAM1 antibody [EPR4048] - BSA and Azide free ab179460

リコンビナント **RabMAb**

画像数 6

製品の概要

製品名	Anti-CEACAM1 antibody [EPR4048] - BSA and Azide free
製品の詳細	Rabbit monoclonal [EPR4048] to CEACAM1 - BSA and Azide free
由来種	Rabbit
アプリケーション	適用あり: IHC-P, WB 適用なし: Flow Cyt, ICC/IF or IP
種交差性	交差種: Human
免疫原	Synthetic peptide within Human CEACAM1 aa 50-150 (N terminal). The exact sequence is proprietary.
ポジティブ・コントロール	WB: HepG2 cell lysate, A549 cell lysate, Human fetal liver tissue lysate, Human liver tissue and His-tagged human CEAM-1 fragment. IHC-P: Human kidney tissue, HEK-293T cells transfected with a CEACAM1 expression vector containing a his tag, HEK-293T cells transfected with a CEACAM3 expression vector containing a his tag and HEK-293T cells transfected with a CEACAM5 expression vector containing a his tag.
特記事項	<p>ab179460 is the carrier-free version of ab108390.</p> <p>Our carrier-free antibodies are typically supplied in a PBS-only formulation, purified and free of BSA, sodium azide and glycerol. The carrier-free buffer and high concentration allow for increased conjugation efficiency.</p> <p>This conjugation-ready format is designed for use with fluorochromes, metal isotopes, oligonucleotides, and enzymes, which makes them ideal for antibody labelling, functional and cell-based assays, flow-based assays (e.g. mass cytometry) and Multiplex Imaging applications.</p> <p>Use our conjugation kits for antibody conjugates that are ready-to-use in as little as 20 minutes with <1 minute hands-on-time and 100% antibody recovery: available for fluorescent dyes, HRP, biotin and gold.</p> <p>This product is compatible with the Maxpar[®] Antibody Labeling Kit from Fluidigm, without the need for antibody preparation. Maxpar[®] is a trademark of Fluidigm Canada Inc.</p> <p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none"> - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply

- Animal-free production

For more information [see here](#).

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

Mouse, Rat: We have preliminary internal testing data to indicate this antibody may not react with these species. Please contact us for more information.

製品の特性

製品の状態	Liquid
保存方法	Shipped at 4°C. Store at +4°C. Do Not Freeze.
バッファー	Constituent: PBS
キャリア・フリー	はい
精製度	Protein A purified
ポリ/モノ	モノクローナル
クローン名	EPR4048
アイソタイプ	IgG

アプリケーション

The Abpromise guarantee **Abpromise保証は、**次のテスト済みアプリケーションにおけるab179460の使用に適用されます
アプリケーションノートには、推奨の開始希釈率がありますが、適切な希釈率につきましてはご検討ください。

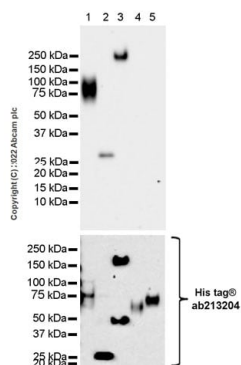
アプリケーション	Abreviews	特記事項
IHC-P		Use at an assay dependent concentration. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.
WB		Use at an assay dependent concentration. Predicted molecular weight: 58 kDa.

追加情報 Is unsuitable for Flow Cyt, ICC/IF or IP.

ターゲット情報

配列類似性	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.
細胞内局在	Secreted; Cell membrane and Cell membrane. Localizes to sites of cell-cell contact.

製品の状態 There are 11 isoforms produced by alternative splicing. Isoform 1 = BGP_a; CEACAM1-4L; TM1-CEA; Isoform 2 = BGP_g; CEACAM1-4C1; Isoform 3 = BGP_h; CEACAM1-3; Isoform 4 = BGP_i; CEACAM1-3C2; Isoform 5 = BGP_y; CEACAM1-3AL; Isoform 6 = BGP_b; CEACAM1-3L; TM2-CEA; Isoform 7 = BGP_x; CEACAM1-1L; Isoform 8 = BGP_c; CEACAM1-4S; TM3-CEA; Isoform 9 = BGP_z; CEACAM1-3AS and Isoform 11 = BGP_d; CEACAM1-3S.



Western blot - Anti-CEACAM1 antibody [EPR4048] - BSA and Azide free (ab179460)

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

Lane 1 : His-tagged human CEAM-1 fragment

Lane 2 : His-tagged human CEAM-3 fragment

Lane 3 : His-tagged human CEAM-5 fragment

Lane 4 : His-tagged human CEAM-6 fragment

Lane 5 : His-tagged human CEAM-8 fragment

Lysates/proteins at 0.01 µg per lane.

Secondary

All lanes : Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/100000 dilution

Predicted band size: 58 kDa

Observed band size: 66 kDa

Additional bands at: 180 kDa (possible cross reactivity), 25 kDa (possible cross reactivity)

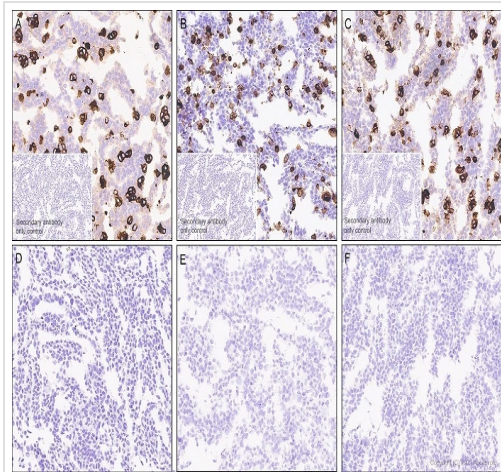
Exposure time: 37 seconds

Blocking buffer and concentration: 5% NFDM/TBST

Diluting buffer and concentration: 5% NFDM/TBST

This antibody cross-reacts with CEAM-3 and CEAM-5.

This data was developed using the same antibody clone in a different buffer formulation ([ab108390](#)).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CEACAM1 antibody [EPR4048] - BSA and Azide free (ab179460)

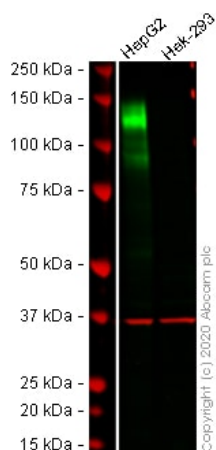
Immunohistochemical analysis of paraffin-embedded sections (A) HEK-293T cells transfected with a CEACAM1 expression vector containing a his tag. (B) HEK-293T cells transfected with a CEACAM3 expression vector containing a his tag. (C) HEK-293T cells transfected with a CEACAM5 expression vector containing a his tag. (D) HEK-293T cells transfected with a CEACAM6 expression vector containing a his tag. (E) HEK-293T cells transfected with a CEACAM8 expression vector containing a his tag. (F) HEK-293T cells transfected with empty vector containing a his tag.

This was labelling CEACAM1 with **ab108390** at 1/2000 dilution. The section was incubated with **ab108390** for 30 mins at room temperature. LeicaDS9800 (Bond™ Polymer Refine Detection) was used as the secondary antibody. Sections were counter stained with hematoxylin. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution2) for 20 mins.

Positive staining on (A) HEK-293T cells transfected with a CEACAM1 expression vector containing a his tag, (B) HEK-293T cells transfected with a CEACAM3 expression vector containing a his tag and (C) HEK-293T cells transfected with a CEACAM5 expression vector containing a his tag. No staining on (D) HEK-293T cells transfected with a CEACAM6 expression vector containing a his tag, (E) HEK-293T cells transfected with a CEACAM8 expression vector containing a his tag and (F) HEK-293T cells transfected with empty vector containing a his tag. The results indicated cross reaction with CEACAM1, CEACAM3 and CEACAM5.

The immunostaining was performed on a Leica Biosystems BOND® RX instrument.

This data was developed using the same antibody clone in a different buffer formulation (**ab108390**).



Western blot - Anti-CEACAM1 antibody [EPR4048] - BSA and Azide free (ab179460)

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.

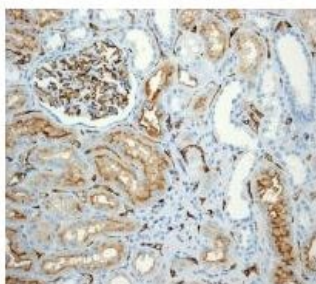
Predicted band size: 58 kDa

Observed band size: 45 kDa

This data was developed using the same antibody clone in a different buffer formulation (**ab108390**).

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 KDM5C / Jarid1C / SMCX 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.

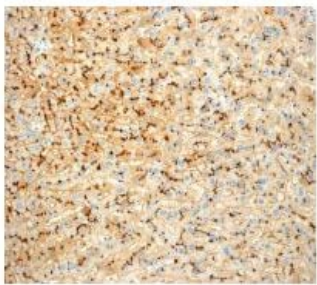


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CEACAM1 antibody [EPR4048] - BSA and Azide free (ab179460)

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

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab108390**).

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



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CEACAM1 antibody [EPR4048] - BSA and Azide free (ab179460)

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

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab108390**).

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

Why choose a recombinant antibody?



Research with confidence
Consistent and reproducible results



Long-term and scalable supply
Recombinant technology



Success from the first experiment
Confirmed specificity



Ethical standards compliant
Animal-free production

Anti-CEACAM1 antibody [EPR4048] - BSA and Azide free (ab179460)

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

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