

Anti-ICAM1 antibody [EPR4776] ab109361

リコンビナント **RabMAb**

★★★★★ **2 Abreviews** **23 References** 画像数 9

製品の概要

製品名	Anti-ICAM1 antibody [EPR4776]
製品の詳細	Rabbit monoclonal [EPR4776] to ICAM1
由来種	Rabbit
アプリケーション	適用あり: Flow Cyt (Intra), ICC/IF, WB, IP, IHC-P
種交差性	交差種: Human
免疫原	Recombinant fragment within Human ICAM1 aa 300-500 (C terminal). The exact sequence is proprietary. Database link: P05362
ポジティブ・コントロール	IHC-P: Human lung carcinoma and tonsil tissue sections; Flow Cyt (intra): Ramos cells; ICC/IF: Raji cells; IP: Raji whole cell lysate; WB: HUVEC treated with 10ng/ml for 18 hours and Ramos whole cell lysate.
特記事項	<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 <p>For more information see here.</p> <p>Our RabMAb[®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb[®] patents.</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>

製品の特性

製品の状態	Liquid
保存方法	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
バッファー	<p>pH: 7.20</p> <p>Preservative: 0.01% Sodium azide</p> <p>Constituents: 0.05% BSA, 40% Glycerol (glycerin, glycerine), 59% PBS</p>

精製度	Protein A purified
ポリ/モノ	モノクローナル
クローン名	EPR4776
アイソタイプ	IgG

アプリケーション

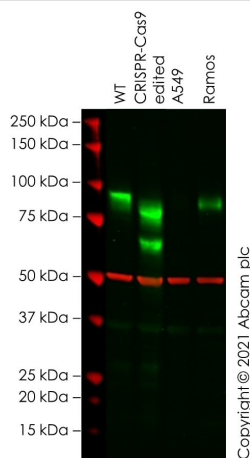
The Abpromise guarantee **Abpromise保証は、次のテスト済みアプリケーションにおけるab109361の使用に適用されます**
 アプリケーションノートには、推奨の開始希釈率がありますが、適切な希釈率につきましてはご検討ください。

アプリケーション	Abreviews	特記事項
Flow Cyt (Intra)		1/70. For unpurified use at 1/100 - 1/500. ab172730 - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.
ICC/IF		1/100. For unpurified use at 1/500.
WB		1/1000 - 1/10000. Detects a band of approximately 89 kDa (predicted molecular weight: 58 kDa).
IP		1/10 - 1/100.
IHC-P	★★★★★ (2)	1/100 - 1/250. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol. See <u>IHC antigen retrieval protocols</u> .

ターゲット情報

機能	ICAM proteins are ligands for the leukocyte adhesion protein LFA-1 (integrin alpha-L/beta-2). During leukocyte trans-endothelial migration, ICAM1 engagement promotes the assembly of endothelial apical cups through ARHGEF26/SGEF and RHOG activation. In case of rhinovirus infection acts as a cellular receptor for the virus.
配列類似性	Belongs to the immunoglobulin superfamily. ICAM family. Contains 5 Ig-like C2-type (immunoglobulin-like) domains.
翻訳後修飾	Monoubiquitinated, which is promoted by MARCH9 and leads to endocytosis.
細胞内局在	Membrane.

画像



Western blot - Anti-ICAM1 antibody [EPR4776]
(ab109361)

All lanes : Anti-ICAM1 antibody [EPR4776] (ab109361) at 1/1000 dilution

Lane 1 : Wild-type HeLa cell lysate

Lane 2 : ICAM1 CRISPR-Cas9 edited HeLa cell lysate

Lane 3 : A549 cell lysate

Lane 4 : Ramos cell lysate

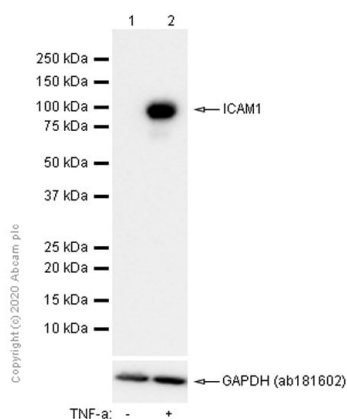
Lysates/proteins at 20 µg per lane.

Performed under reducing conditions.

Predicted band size: 58 kDa

Observed band size: 90 kDa

False colour image of Western blot: Anti-ICAM1 antibody [EPR4776] staining at 1/1000 dilution, shown in green; Mouse anti-Alpha Tubulin [DM1A] ([ab7291](#)) loading control staining at 1/20000 dilution, shown in red. In Western blot, ab109361 was shown to bind specifically to ICAM1. A band was observed at 90 kDa in wild-type HeLa cell lysates with no signal observed at this size in *Icam1* CRISPR-Cas9 edited cell line [ab261742](#) (CRISPR-Cas9 edited cell lysate [ab256947](#)). The band observed in the CRISPR-Cas9 edited lysate lane below 90 kDa is likely to represent a truncated form of ICAM1. This has not been investigated further and the functional properties of the gene product have not been determined. To generate this image, wild-type and *Icam1* CRISPR-Cas9 edited HeLa cell lysates were analysed. First, samples were run on an SDS-PAGE gel then transferred onto a nitrocellulose membrane. Membranes were blocked in 3 % milk in TBS-0.1 % Tween® 20 (TBS-T) before incubation with primary antibodies overnight at 4 °C. Blots were washed four times in TBS-T, incubated with secondary antibodies for 1 h at room temperature, washed again four times then imaged. Secondary antibodies used were Goat anti-Rabbit IgG H&L (IRDye® 800CW) preabsorbed ([ab216773](#)) and Goat anti-Mouse IgG H&L (IRDye® 680RD) preabsorbed ([ab216776](#)) at 1/20000 dilution.



Western blot - Anti-ICAM1 antibody [EPR4776]
(ab109361)

Lane 1 : Anti-ICAM1 antibody [EPR4776] (ab109361) at 1/1000 dilution (Purified)

Lane 2 : Anti-ICAM1 antibody [EPR4776] (ab109361) at 1/1000 dilution ((Purified))

Lane 1 : HUVEC (Human umbilical vein endothelial cell) whole cell lysate

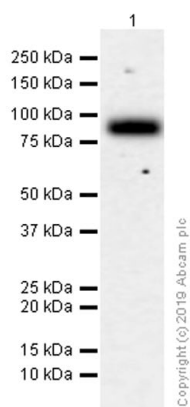
Lane 2 : HUVEC (Human umbilical vein endothelial cell) treated with 10ng/ml for 18 hours whole cell lysate

Lysates/proteins at 15 µg per lane.

Secondary

All lanes : Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/20000 dilution (Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated)

Predicted band size: 58 kDa



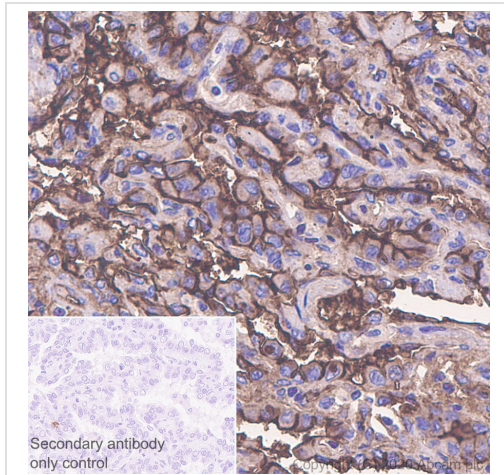
Western blot - Anti-ICAM1 antibody [EPR4776]
(ab109361)

Anti-ICAM1 antibody [EPR4776] (ab109361) at 1/1000 dilution (Purified) + Ramos (Human Burkitt's lymphoma B lymphocyte) whole cell lysate at 15 µg

Secondary

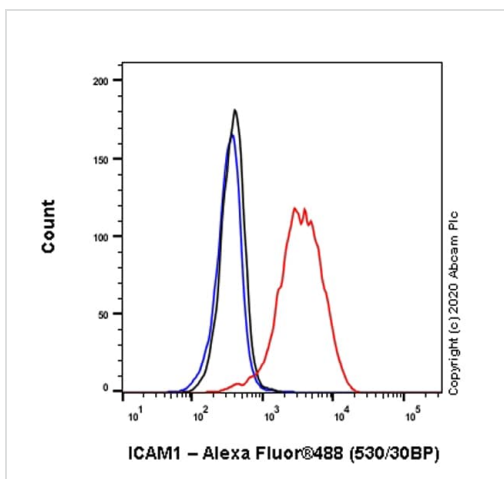
Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/20000 dilution

Predicted band size: 58 kDa



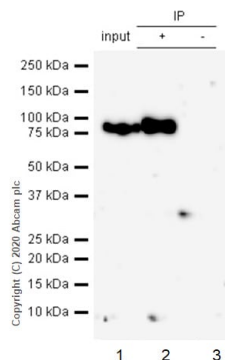
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-ICAM1 antibody [EPR4776] (ab109361)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human lung carcinoma tissue sections labeling ICAM1 with Purified ab109361 at 1/100 dilution (6.79 $\mu\text{g/mL}$). Heat mediated antigen retrieval using Bond™ Epitope Retrieval Solution 2 (pH 9.0). Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**) was used as the secondary antibody. Negative control: PBS instead of the primary antibody. Hematoxylin was used as a counterstain.



Flow Cytometry (Intracellular) - Anti-ICAM1 antibody [EPR4776] (ab109361)

Intracellular Flow Cytometry analysis of Ramos (Human Burkitt's lymphoma B lymphocyte) cells labeling ICAM1 with Purified ab109361 at 1/70 dilution (10 $\mu\text{g/mL}$) (Red). Cells were fixed with 4% Paraformaldehyde and permeabilised with 90% Methanol. A Goat anti rabbit IgG (Alexa Fluor® 488, **ab150077**) secondary antibody was used at 1/2000. Isotype control - Rabbit monoclonal IgG (Black). Unlabeled control - Cell without incubation with primary antibody and secondary antibody (Blue).



Immunoprecipitation - Anti-ICAM1 antibody
[EPR4776] (ab109361)

Purified ab109361 at 1/30 dilution (2µg) immunoprecipitating ICAM1 in Raji whole cell lysate.

Lane 1 (input): Raji (Human Burkitt's lymphoma B lymphocyte) whole cell lysate 10µg

Lane 2 (+): ab109361 + Raji whole cell lysate.

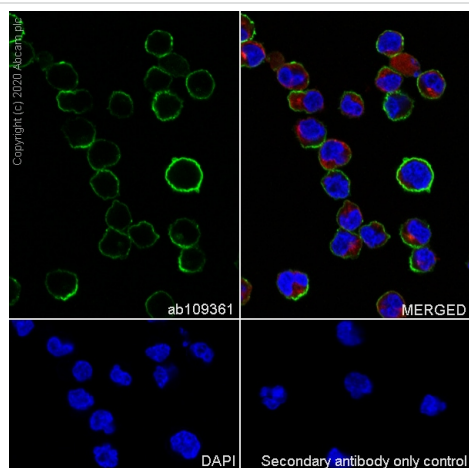
Lane 3 (-): Rabbit monoclonal IgG (**ab172730**) instead of ab109361 in Raji whole cell lysate.

VeriBlot for IP Detection Reagent (HRP) (**ab131366**) (1/1000 dilution) was used for Western blotting.

Blocking Buffer and concentration: 5% NFDm/TBST.

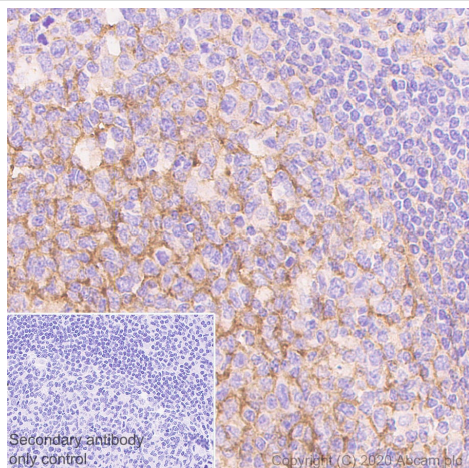
Diluting buffer and concentration: 5% NFDm/TBST.

Observed band size: 89 kDa



Immunocytochemistry/ Immunofluorescence - Anti-ICAM1 antibody [EPR4776] (ab109361)

Immunocytochemistry analysis of Raji (Human Burkitt's lymphoma B lymphocyte) cells labeling ICAM1 with Purified ab109361 at 1/100 dilution (6.79 µg/mL). Cells were fixed in 4% Paraformaldehyde and permeabilized with 0.1% tritonX-100. Cells were counterstained with Ab195889 Anti-alpha Tubulin antibody [DM1A] - Microtubule Marker (Alexa Fluor® 594) 1/200 dilution (2.5 µg/mL). Goat anti rabbit IgG (Alexa Fluor® 488, **ab150077**) was used as the secondary antibody at 1/1000 dilution (2 µg/mL). DAPI (blue) was used as nuclear counterstain. PBS instead of the primary antibody was used as the secondary antibody only control.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human tonsil tissue sections labeling ICAM1 with Purified ab109361 at 1/100 dilution (6.79 µg/mL). Heat mediated antigen retrieval using Bond™ Epitope Retrieval Solution 2 (pH 9.0). Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**) was used as the secondary antibody. Negative control: PBS instead of the primary antibody. Hematoxylin was used as a counterstain.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-ICAM1 antibody
[EPR4776] (ab109361)

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Anti-ICAM1 antibody [EPR4776] (ab109361)

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