

### Anti-ICAM1 antibody [EPR24639-3] ab282575

KO 評価済 リコンビナント RabMAb

★★★★★ [1 Abreviews](#) [4 References](#) [画像数 13](#)

#### 製品の概要

製品名	Anti-ICAM1 antibody [EPR24639-3]
製品の詳細	Rabbit monoclonal [EPR24639-3] to ICAM1
由来種	Rabbit
特異性	Rat species is recommended based on Flow Cyt result. We do not guarantee other applications for rat.
アプリケーション	<b>適用あり:</b> Flow Cyt, IP, IHC-P, ICC/IF, WB <b>適用なし:</b> IHC-Fr
種交差性	<b>交差種:</b> Rat, Human
免疫原	Recombinant fragment. This information is proprietary to Abcam and/or its suppliers.
ポジティブ・コントロール	WB: Wild-type HeLa whole cell lysate. Ramos and Raji whole cell lysate. Human kidney tissue lysate. IHC-P: Human kidney tissue. Human breast cancer tissue. ICC/IF: Raji cells. Wild-type HeLa cells. Flow Cyt: Rat splenocytes. C6 and Raji cells. IP: Raji whole cell lysate.
特記事項	This product is a recombinant monoclonal antibody, which offers several advantages including: <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> For more information <a href="#">see here</a> . 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> .

#### 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. Avoid freeze / thaw cycle.
バッファー	pH: 7.2 Preservative: 0.01% Sodium azide Constituents: 59.94% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA
精製度	Protein A purified

ポリクローナル	モノクローナル
クローン名	EPR24639-3
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ab282575の使用に適用されず**  
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。

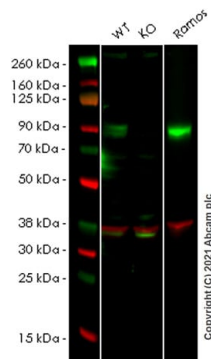
アプリケーション	Abreviews	特記事項
Flow Cyt		1/500.
IP		1/30.
IHC-P		1/600. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.
ICC/IF		1/500.
WB	★★★★★ (1)	1/1000. Predicted molecular weight: 57 kDa.

**追加情報** Is unsuitable for IHC-Fr.

## ターゲット情報

<b>機能</b>	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.
<b>配列類似性</b>	Belongs to the immunoglobulin superfamily. ICAM family. Contains 5 Ig-like C2-type (immunoglobulin-like) domains.
<b>翻訳後修飾</b>	Monoubiquitinated, which is promoted by MARCH9 and leads to endocytosis.
<b>細胞内局在</b>	Membrane.

## 画像



Western blot - Anti-ICAM1 antibody [EPR24639-3] (ab282575)

**All lanes :** Anti-ICAM1 antibody [EPR24639-3] (ab282575) at 1/1000 dilution

**Lane 1 :** Wild-type HeLa (human cervix adenocarcinoma epithelial cell) whole cell lysate

**Lane 2 :** ICAM1 knockout HeLa whole cell lysate

**Lane 3 :** Ramos (Human Burkitt's lymphoma B lymphocyte) whole cell lysate

Lysates/proteins at 20 µg per lane.

#### Secondary

**All lanes :** Goat Anti-Rabbit IgG H&L (IRDye® 800CW) (**ab216773**) and Goat Anti-Mouse IgG H&L (IRDye® 680RD) (**ab216776**) at 1/10000 dilution

**Predicted band size:** 57 kDa

**Observed band size:** 90 kDa

Blocking and diluting buffer and concentration: Intercept® (TBS)

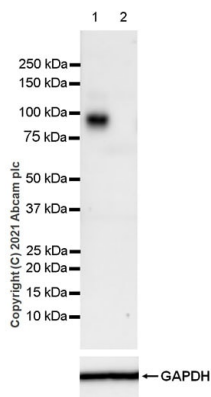
Blocking Buffer diluted with an equal volume of 0.1% TBS

**Lanes 1-3:** Merged signal (red and green). Green - ab282575 observed at 90kDa. Red - loading control **ab8245** observed at 36 kDa.

ab282575 Anti-ICAM1 antibody [EPR24639-3] was shown to react with ICAM1 in wild-type HeLa cells in Western blot. Loss of signal was observed when knockout cell line **ab261742** (knockout cell lysate **ab256947**) was used. Wild-type and ICAM1 knockout samples were subjected to SDS-PAGE.

ab282575 and Anti-GAPDH antibody [6C5] - Loading Control (**ab8245**) were incubated at 4°C overnight at 1 in 1000 dilution and 1 in 20000 dilution respectively. Blots were developed with Goat anti-Rabbit IgG H&L (IRDye® 800CW) preadsorbed (**ab216773**)

and Goat anti-Mouse IgG H&L (IRDye® 680RD) preadsorbed ([ab216776](#)) secondary antibodies at 1 in 10000 dilution for 1 hour at room temperature before imaging.



Western blot - Anti-ICAM1 antibody [EPR24639-3] (ab282575)

**All lanes :** Anti-ICAM1 antibody [EPR24639-3] (ab282575) at 1/1000 dilution

**Lane 1 :** Wild-type HeLa (human cervix adenocarcinoma epithelial cell) whole cell lysate

**Lane 2 :** ICAM1 knockout HeLa whole cell lysate

Lysates/proteins at 20 µg per lane.

### Secondary

**All lanes :** Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/20000 dilution

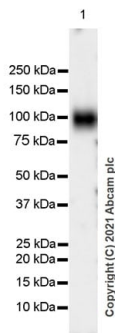
**Predicted band size:** 57 kDa

**Observed band size:** 90 kDa

Blocking and diluting buffer and concentration: 5% NFDM/TBST  
ab282575 Anti-ICAM1 antibody [EPR24639-3] was shown to react with ICAM1 in wild-type HeLa cells in Western blot. Loss of signal was observed when knockout cell line [ab261742](#) (knockout cell lysate [ab256947](#)) was used. Wild-type and ICAM1 knockout samples were subjected to SDS-PAGE.

Exposure time: 15 seconds.

Anti-ICAM1 antibody [EPR24639-3] (ab282575) at 1/1000 dilution + human kidney tissue lysate at 20 µg



Western blot - Anti-ICAM1 antibody [EPR24639-3] (ab282575)

### Secondary

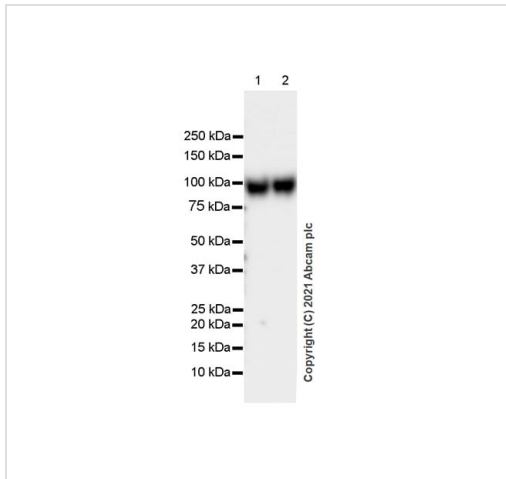
VeriBlot for IP Detection Reagent (HRP) ([ab131366](#)) at 1/1000 dilution

**Predicted band size:** 57 kDa

**Observed band size:** 90 kDa

Blocking and diluting buffer and concentration: 5% NFDM/TBST

Exposure time: 26 seconds



Western blot - Anti-ICAM1 antibody [EPR24639-3] (ab282575)

**All lanes** : Anti-ICAM1 antibody [EPR24639-3] (ab282575) at 1/1000 dilution

**Lane 1** : Ramos (human Burkitt's lymphoma B lymphocyte) whole cell lysate

**Lane 2** : Raji (human Burkitt's lymphoma B lymphocyte) whole cell lysate

Lysates/proteins at 20 µg per lane.

### Secondary

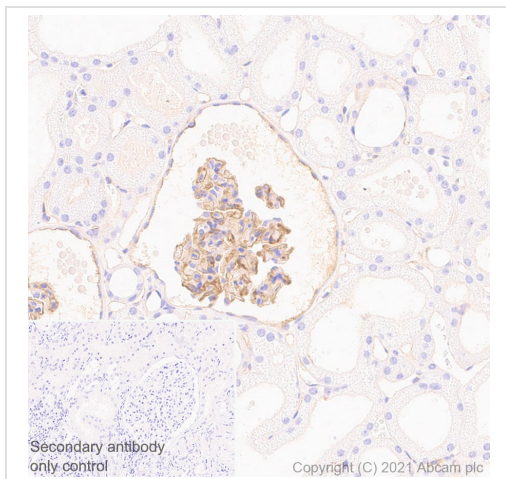
**All lanes** : Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/20000 dilution

**Predicted band size:** 57 kDa

**Observed band size:** 90 kDa

Blocking and diluting buffer and concentration: 5% NFDM/TBST

Exposure time: 15 seconds

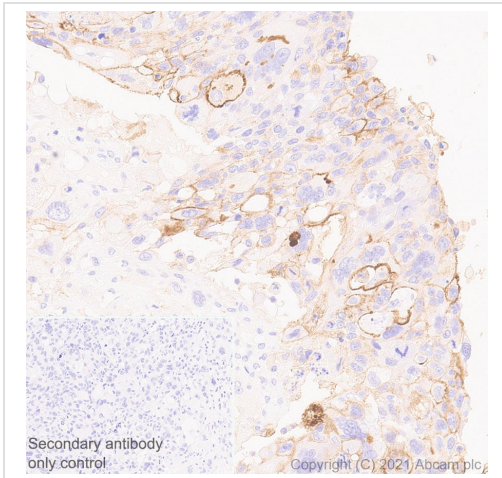


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-ICAM1 antibody [EPR24639-3] (ab282575)

Immunohistochemical analysis of paraffin-embedded human kidney tissue labelling ICAM1 with ab282575 at 1/600 (0.902 µg/ml) dilution followed by a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection). Positive staining on normal human glomerulus. The section was incubated with ab282575 for 30 mins at room temperature. The immunostaining was performed on a Leica Biosystems BOND® RX instrument. Counterstained with Hematoxylin.

Secondary antibody only control: Secondary antibody is a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection).

Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution2) for 20 mins.

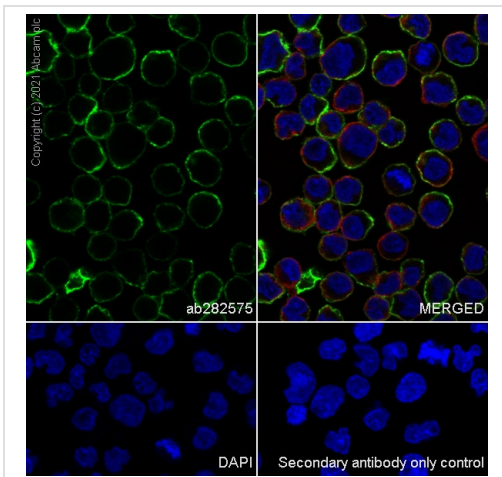


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-ICAM1 antibody [EPR24639-3] (ab282575)

Immunohistochemical analysis of paraffin-embedded human breast cancer tissue labelling ICAM1 with ab282575 at 1/600 (0.902 µg/ml) dilution followed by a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection). Positive staining on human breast cancer (PMID: 30082828). The section was incubated with ab282575 for 30 mins at room temperature. The immunostaining was performed on a Leica Biosystems BOND® RX instrument. Counterstained with Hematoxylin.

Secondary antibody only control: Secondary antibody is a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection).

Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution2) for 20 mins.

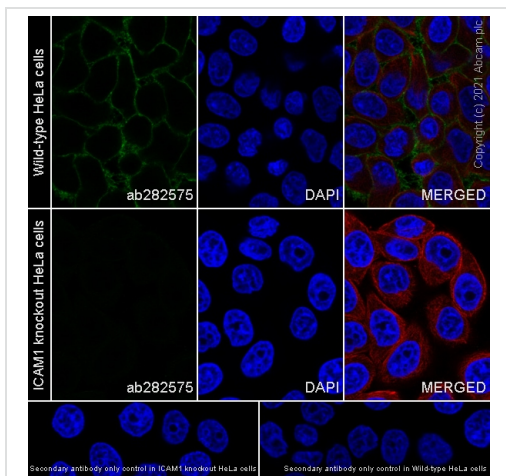


Immunocytochemistry/ Immunofluorescence - Anti-ICAM1 antibody [EPR24639-3] (ab282575)

Immunofluorescent analysis of 4% Paraformaldehyde-fixed, 0.1% Triton X-100 permeabilized Raji cells labelling ICAM1 with ab282575 at 1/500 (1.082 µg/ml) dilution, followed by **ab150077** Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) antibody at 1/1000 dilution (Green). Confocal image showing membranous staining in Raji cells.

**ab195889** Anti-alpha Tubulin mouse monoclonal antibody - Microtubule Marker (Alexa Fluor® 594) was used to counterstain tubulin at 1/200 dilution (Red). The nuclear counterstain was DAPI (Blue).

Secondary antibody only control: Secondary antibody is **ab150077** Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) at 1/1000 dilution.

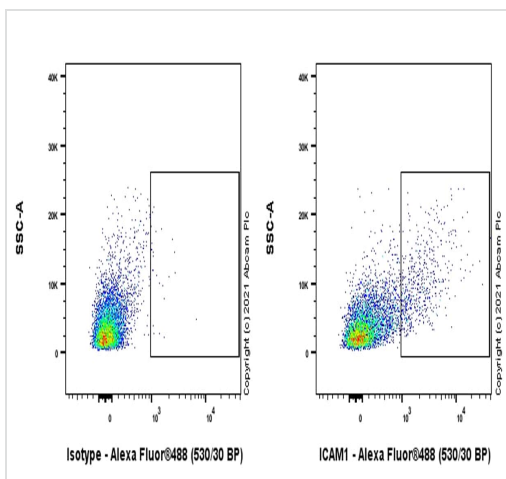


Immunocytochemistry/ Immunofluorescence - Anti-ICAM1 antibody [EPR24639-3] (ab282575)

Immunofluorescent analysis of 4% Paraformaldehyde-fixed, 0.1% Triton X-100 permeabilized ICAM1 KO HeLa cells labelling ICAM1 with ab282575 at 1/500 (1.082 µg/ml) dilution, followed by **ab150081** Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) preadsorbed antibody at 1/1000 dilution (Green). Confocal image showing membranous staining in wild-type HeLa cells, and no staining in ICAM1 knockout HeLa cells is observed.

**ab195889** Anti-alpha Tubulin mouse monoclonal antibody - Microtubule Marker (Alexa Fluor® 594) was used to counterstain tubulin at 1/200 dilution (Red). The nuclear counterstain was DAPI (Blue).

Secondary antibody only control: Secondary antibody is **ab150081** Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) preadsorbed at 1/1000 dilution.

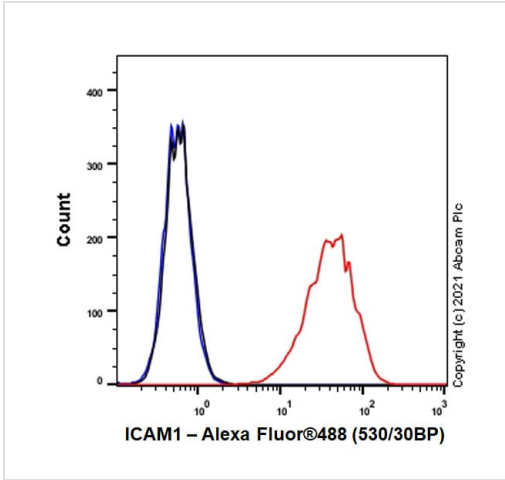


Flow Cytometry - Anti-ICAM1 antibody [EPR24639-3] (ab282575)

Flow cytometric analysis of rat splenocytes cells labelling ICAM1 with ab282575 at 1/500 dilution (0.1 µg)/ Right compared with a Rabbit monoclonal IgG (**ab172730**) / Left isotype control. A goat anti rabbit IgG (Alexa Fluor® 488, **ab150077**) at 1/2000 dilution was used as the secondary antibody.

Gated on viable cells.

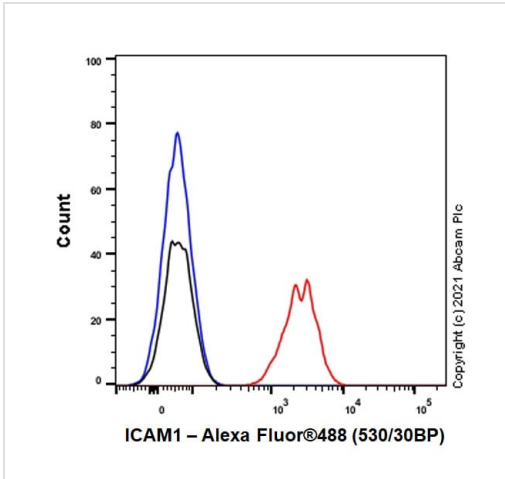




Flow Cytometry - Anti-ICAM1 antibody [EPR24639-3] (ab282575)

Flow cytometric analysis of C6 (Rat glial tumor glial cell) cells labelling ICAM1 with ab282575 at 1/500 dilution (0.1 µg)/(red) compared with a Rabbit monoclonal IgG (**ab172730**) (Black) isotype control and an unlabelled control (cells without incubation with primary antibody and secondary antibody) (Blue). Goat anti rabbit IgG (Alexa Fluor® 488, **ab150077**) at 1/2000 dilution was used as the secondary antibody.

Gated on viable cells.

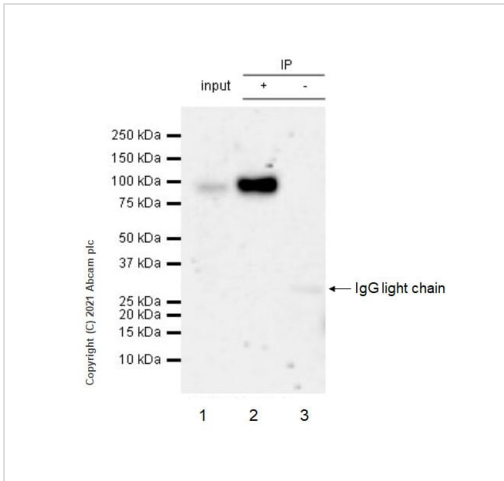


Flow Cytometry - Anti-ICAM1 antibody [EPR24639-3] (ab282575)

Flow cytometric analysis of Raji (Human Burkitt's lymphoma B lymphocyte) cells labelling ICAM1 with ab282575 at 1/500 dilution (0.1 µg)/(Red) compared with a Rabbit monoclonal IgG (**ab172730**) (Black) isotype control and an unlabelled control (cells without incubation with primary antibody and secondary antibody) (Blue). Goat anti rabbit IgG (Alexa Fluor® 488, **ab150077**) at 1/2000 dilution was used as the secondary antibody.

Gated on viable cells.





Immunoprecipitation - Anti-ICAM1 antibody  
[EPR24639-3] (ab282575)

ICAM1 was immunoprecipitated from 0.35 mg Raji (human burkitt's lymphoma b lymphocyte) whole cell lysate 10 µg with ab282575 at 1/30 dilution (2 µg in 0.35 mg lysates). Western blot was performed on the immunoprecipitate using ab282575 at 1/1000 dilution. VeriBlot for IP secondary antibody(HRP)(**ab131366**) was used at 1/5000 dilution.

**Lane 1:** Raji whole cell lysate 10 µg





**Lane 2:** ab282575 IP in Raji whole cell lysate

**Lane 3:** Rabbit monoclonal IgG (**ab172730**) instead of ab282575 in Raji whole cell lysate

Blocking and dilution buffer and concentration: 5% NFDm/TBST.

Exposure time: 3 minutes.

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-ICAM1 antibody [EPR24639-3] (ab282575)

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

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