abcam

ab222736

Anti-ICAM1 antibody [EPR22161-284]

Anti-ICAM1 antibody [EPR22161-284] (ab222736) is a rabbit monoclonal antibody detecting ICAM1 in **Western Blot, Flow Cytometry, IP, IHC-P, ICC/IF**. Suitable for **Mouse**.

- Biophysical QC for unrivalled batch-batch consistency
- Over 10 publications

Recombinant | RabMAb | 20ul selling size

Key facts

Isotype	IgG
Host species	Rabbit
Storage buffer	pH: 7.2 - 7.4 Preservative: 0.01% Sodium azide Constituents: PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA
Form	Liquid
Clonality	Monoclonal
Immunogen	The exact immunogen used to generate this antibody is proprietary information.
Clone number	EPR22161-284
Purification technique	Affinity purification Protein A
Concentration	0.604 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →

Reactivity data

IP

Tested

Species	Mouse

Dilution info	1/30
Notes	-

Not recommended

Species	Rat
Dilution info	-
Notes	-

Flow Cyt

Tested

Species	Mouse
Dilution info	1/500
Notes	-

Not recommended

Species	Rat
Dilution info	-
Notes	-

WB

Tested

Species	Mouse
Dilution info	1/1000
Notes	-

Not recommended

Species	Rat
Dilution info	-
Notes	-

ICC/IF

Tested

Species	Mouse
Dilution info	1/50
Notes	-

Not recommended

Species	Rat
Dilution info	-
Notes	-

IHC-P

Tested

Species	Mouse
Dilution info	1/1000
Notes	Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution 2) for 20 mins. Perform heat-mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

Not recommended

Species	Rat
Dilution info	-
Notes	-

Target data

See full target information Icam1

Function	Cell adhesion molecule that functions as a receptor ligand of the signaling receptor ITGAL:ITGB2/LFA-1 (lymphocyte-function associated (LFA) molecule 1) ensuring leukocyte cell-cell adhesion, by providing a calibrated system to namely adjust T-cell killing to the antigen stimulation strength. Also functions as a ligand

receptor of the signaling receptor ITGAM:ITGB2/MAC-1 ensuring adhesion between stimulated neutrophils and stimulated endothelial cells. During leukocyte trans-endothelial migration, ICAM1 engagement promotes the assembly of endothelial apical cups through ARHGEF26/SGEF and RHOG activation. Promotes cell aggregation in epithelial cells through interaction with MUC1.

Storage

Shipped at conditions	Conditional Ambient
Appropriate short-term storage duration	1-2 weeks
Appropriate short-term storage conditions	+4°C
Appropriate long-term storage conditions	-20°C
Aliquoting information	Upon delivery aliquot
Storage information	Avoid freeze / thaw cycle

Notes

What is this antibody validated in?
Anti-ICAM1 antibody [EPR22161-284] (ab222736) is a rabbit recombinant monoclonal antibody and is validated for use in Western Blot (WB), Flow Cytometry (Flow Cyt), Immunoprecipitation (IP), Immunohistochemistry (IHC-P), Immunocytochemistry/immunofluorescence (ICC/IF) in Mouse samples.

What is the molecular weight of ICAM1?
Anti-ICAM1 [EPR22161-284] (ab222736) specifically detects a band for ICAM1 (UniProt: P13597) at a molecular weight of 57kDa.

Trusted by the scientific community
Anti-ICAM1 [EPR22161-284] (ab222736) was first used in a scientific publication in 2018 and has been cited over 10 times in peer-reviewed journals.

Other related products
We have a range of other formats of antibody clone [EPR22161-284] also available for your convenience: ab222736, Carrier free - ab239401, Alexa Fluor® 488 - ab302655, Alexa Fluor® 647 - ab307614, FITC - ab322304, Alexa Fluor® 680 - ab322983

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

What are the advantages of a recombinant monoclonal antibody?
This product is a recombinant monoclonal antibody, which offers several advantages including:

- High batch-to-batch consistency and reproducibility
- Improved sensitivity and specificity
- Long-term security of supply
- Animal-free batch production

For more information, read more on recombinant antibodies.

Trial sizes available!
Test your antibody or perform pre-screening before committing to a larger quantity. Sold in 20µl. Discover our selection of trial-size antibodies.

Product promise

Tested

We have tested this species and application combination and it works. It is covered by our product promise.

Expected

We have not tested this specific species and application combination in-house, but expect it will work. It is covered by our product promise.

Predicted

This species and application combination has not been tested, but we predict it will work based on strong homology. However, this combination is not covered by our product promise.

Not recommended

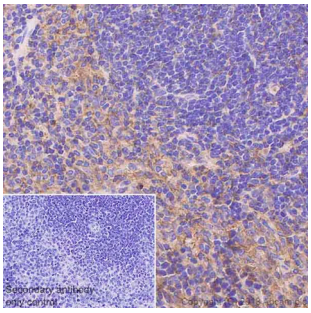
We do not recommend this combination. It is not covered by our product promise.

We are dedicated to supporting your work with high quality reagents and we are here for you every step of the way should you need us.

In the unlikely event of one of our products not working as expected, you are covered by our product promise.

Full details and terms and conditions can be found here:
Terms & Conditions.

6 product images



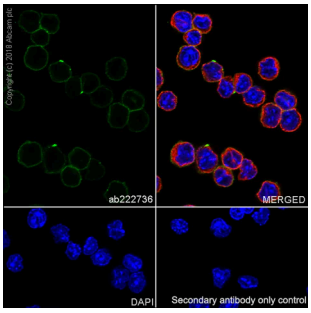
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-ICAM1 antibody [EPR22161-284] (ab222736)

ICAM1 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-ICAM1 antibody

Immunohistochemical analysis of paraffin-embedded mouse spleen tissue labeling ICAM1 using ab222736 at 1/1000 dilution, followed by a ready to use Rabbit specific IHC polymer detection kit HRP/DAB (ab209101). Cytoplasmic staining on the marginal zone of mouse spleen (PMID: 12130787; PMID: 17947659) is observed. Counterstained with Hematoxylin.
Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Rabbit specific IHC polymer detection kit HRP/DAB (ab209101) ready to use.

Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution 2) for 20 mins.

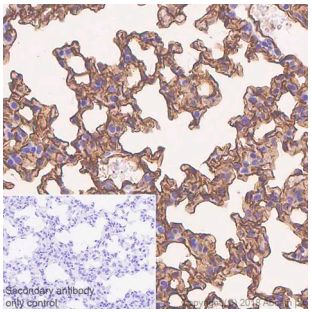
Immunostaining was performed on a Leica Biosystems BOND® RX instrument. The section was incubated with ab222736 for 30 mins at room temperature.



Immunocytochemistry/ Immunofluorescence - Anti-ICAM1 antibody [EPR22161-284] (ab222736)

ICAM1 Immunocytochemistry/ Immunofluorescence staining using rabbit Anti-ICAM1 antibody

Immunofluorescent analysis of 4% paraformaldehyde-fixed, 0.1% Triton X-100 permeabilized A20 (mouse reticulum sarcoma cell line) cells labeling ICAM with ab222736 at 1/50 dilution, followed by Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) (ab150077) secondary antibody at 1/1000 dilution (green). Confocal image showing membranous staining in A20 cells with distinct staining of the target protein being transported from Golgi to cell surfaces (PMID: 17486117) is observed. Anti-alpha Tubulin antibody [DM1A] - Microtubule Marker (Alexa Fluor® 594) (ab195889) was used as a countertsain (Red) at 1/200 dilution. The nuclear counterstain is DAPI (Blue).
Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Alexa Fluor®488 Goat anti-Rabbit secondary (ab150077) at 1/1000 dilution.



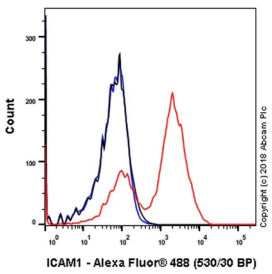
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-ICAM1 antibody [EPR22161-284] (ab222736)

ICAM1 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-ICAM1 antibody

Immunohistochemical analysis of paraffin-embedded mouse lung tissue labeling ICAM1 using ab222736 at 1/1000 dilution, followed by a ready to use Rabbit specific IHC polymer detection kit HRP/DAB (ab209101). Membranous and cytoplasmic staining on mouse lung (PMID: 14568945; PMID: 9802985) is observed. Counterstained with DAPI.
Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Rabbit specific IHC polymer detection kit HRP/DAB (ab209101) ready to use.

Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution 2) for 20 mins.

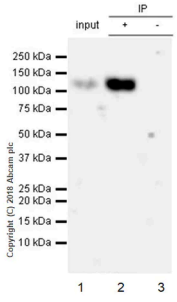
Immunostaining was performed on a Leica Biosystems BOND® RX instrument. The section was incubated with ab222736 for 30 mins at room temperature.



Flow Cytometry - Anti-ICAM1 antibody [EPR22161-284] (ab222736)

ICAM1 Flow Cytometry staining using rabbit Anti-ICAM1 antibody

Flow cytometric analysis of Mouse primary splenocytes labeling ICAM1 with ab222736 at 1/500 dilution (Red) compared with a Rabbit monoclonal IgG (ab172730) isotype control (Black) and an unlabeled control (Cell without incubation with primary antibody and secondary antibody, Blue). Goat anti rabbit IgG (Alexa Fluor® 488, ab150077) at 1/200 dilution was used as the secondary antibody. Gated on viable cells.
ICAM1 negative population (left half of red peak) was also observed in mouse splenocytes which is consistent with IHC staining pattern.



Immunoprecipitation - Anti-ICAM1 antibody [EPR22161-284] (ab222736)

ICAM1 was immunoprecipitated from 0.35 mg Mouse spleen lysate with ab222736 at 1/30 dilution. Western blot was performed from the immunoprecipitate using ab222736 at 1/1000 dilution. VeriBlot for IP Detection Reagent (HRP) (ab131366) was used for detection at 1/5000 dilution.
Lane 1: Mouse spleen tissue lysate 10 µg (input).
Lane 2: ab222736 IP in mouse spleen tissue lysate.
Lane 3: Rabbit monoclonal IgG (ab172730) instead of ab222736 in Mouse spleen lysate.

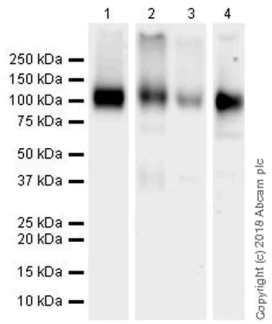
Blocking and dilution buffer and concentration: 5% NFDM/TBST.
Exposure time: 3 minutes.

110-kDa molecular mass is due to glycosylation (PMID: 1680698).

All lanes:
Immunoprecipitation - Anti-ICAM1 antibody [EPR22161-284] (ab222736)

Predicted band size: 57 kDa

Observed band size: 110 kDa



Western blot - Anti-ICAM1 antibody [EPR22161-284] (ab222736)

Blocking/Diluting buffer and concentration: 5% NFDM/TBST.
Exposure time: 48 seconds.

The 110-KDa apparent molecular mass is due to glycosylation (PMID: 1680698).

All lanes:
Western blot - Anti-ICAM1 antibody [EPR22161-284] (ab222736) at 1/1000 dilution

Lane 1:
Mouse kidney tissue lysate at 20 µg

Lane 2:
Mouse spleen tissue lysate at 20 µg

Lane 3:
Mouse liver tissue lysate at 20 µg

Lane 4:
A20 (mouse reticulum sarcoma b lymphocyte) whole cell lysate at 20 µg

Secondary

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

Predicted band size: 57 kDa

Observed band size: 110 kDa

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.