abcam

Product datasheet

Anti-Junctional Adhesion Molecule 1/JAM-A antibody [EPR23244-12] ab269948

Recombinant RabMAb

1 References 7 Images

Overview

Product name	Anti-Junctional Adhesion Molecule 1/JAM-A antibody [EPR23244-12]
Description	Rabbit monoclonal [EPR23244-12] to Junctional Adhesion Molecule 1/JAM-A
Host species	Rabbit
Tested applications	**Suitable for:** ICC/IF, WB, Flow Cyt, IP **Unsuitable for:** IHC-P
Species reactivity	**Reacts with:** Human
Immunogen	Recombinant fragment. This information is proprietary to Abcam and/or its suppliers.
Positive control	WB: Human lung tissue lysate. HT-29, HUVEC and TF-1 whole cell lysate. ICC/IF: HT-29 cells. Flow Cyt: HT-29 cells, human B lymphocytes and human monocytes. IP: HT-29 whole cell lysate. Human lung tissue lysate.
General notes	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 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**.

Properties

Form	Liquid
Storage instructions	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.
Storage buffer	pH: 7.2 Preservative: 0.01% Sodium azide Constituents: PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA
Purity	Protein A purified

Clonality	Monoclonal
Clone number	EPR23244-12
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab269948 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

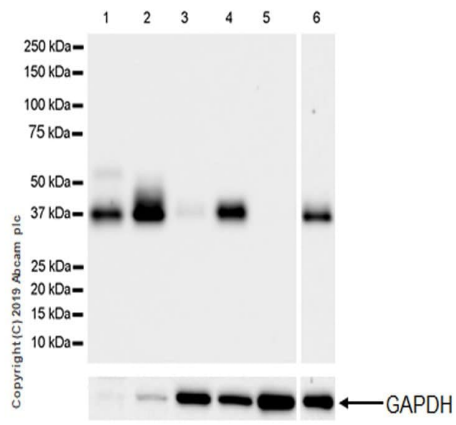
Application	Abreviews	Notes
ICC/IF		1/50.
WB		1/1000. Predicted molecular weight: 32 kDa.
Flow Cyt		1/500.
IP		1/30.

Application notes Is unsuitable for IHC-P.

Target

Function	Seems to plays a role in epithelial tight junction formation. Appears early in primordial forms of cell junctions and recruits PARD3. The association of the PARD6-PARD3 complex may prevent the interaction of PARD3 with JAM1, thereby preventing tight junction assembly (By similarity). Plays a role in regulating monocyte transmigration involved in integrity of epithelial barrier. Involved in platelet activation. In case of orthoreovirus infection, serves as receptor for the virus.
Sequence similarities	Belongs to the immunoglobulin superfamily. Contains 2 Ig-like V-type (immunoglobulin-like) domains.
Post-translational modifications	N-glycosylated.
Cellular localization	Cell junction > tight junction. Cell membrane. Localized at tight junctions of both epithelial and endothelial cells.

Images



Western blot - Anti-Junctional Adhesion Molecule 1/JAM-A antibody [EPR23244-12] (ab269948)

All lanes : Anti-Junctional Adhesion Molecule 1/JAM-A antibody [EPR23244-12] (ab269948) at 1/1000 dilution

Lane 1 : Human lung lysate
Lane 2 : HT-29 (human colorectal adenocarcinoma epithelial cell) whole cell lysate
Lane 3 : THP-1 (human monocytic leukemia monocyte) whole cell lysate
Lane 4 : HUVEC (human umbilical vein endothelial cell) whole cell lysate
Lane 5 : MOLT-4 (human lymphoblastic leukemia t lymphoblast) whole cell lysate
Lane 6 : TF-1 (human erythroleukemia erythroblast) whole cell lysate

Lysates/proteins at 20 µg per lane.

Secondary
All lanes : Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/50000 dilution

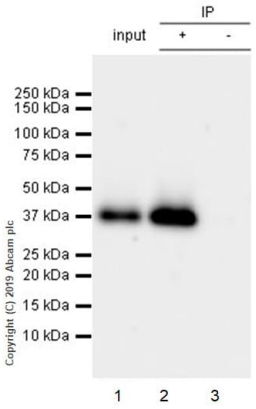
Predicted band size: 32 kDa
Observed band size: 35 kDa

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

The expression profile/ molecular weight observed is consistent with what has been described in the literature (PMID:10698320, 10753840).

Low expression control: THP-1 and Molt-4 (PMID:10698320).

Exposure time: Lanes 1-5: 15 seconds; Lane 6:70 seconds.



Immunoprecipitation - Anti-Junctional Adhesion Molecule 1/JAM-A antibody [EPR23244-12] (ab269948)

Junctional Adhesion Molecule 1/JAM-A was immunoprecipitated from 0.35 mg human lung lysate 10µg with ab269948 at 1/30 dilution (2µg in 0.35 mg lysates). Western blot was performed on the immunoprecipitate using ab269948 at 1/500 dilution. VeriBlot for IP Detection Reagent (HRP) (**ab131366**) was used at 1/1000 dilution.

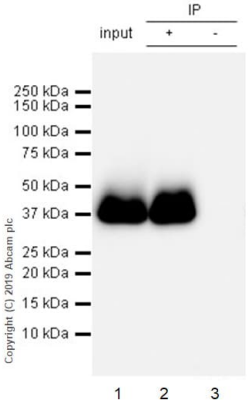
Lane 1: Human lung lysate 10µg.

Lane 2: ab269948 IP in human lung lysate.

Lane 3: Rabbit monoclonal IgG (**ab172730**) instead of ab269948 in human lung lysate.

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

Exposure time: 15 seconds.



Immunoprecipitation - Anti-Junctional Adhesion Molecule 1/JAM-A antibody [EPR23244-12] (ab269948)

Junctional Adhesion Molecule 1/JAM-A was immunoprecipitated from 0.35 mg HT-29 (Human colorectal adenocarcinoma epithelial cell) whole cell lysate 10µg with ab269948 at 1/30 dilution (2µg in 0.35 mg lysates). Western blot was performed on the immunoprecipitate using ab269948 at 1/500 dilution. VeriBlot for IP Detection Reagent (HRP) (**ab131366**) was used at 1/1000 dilution.

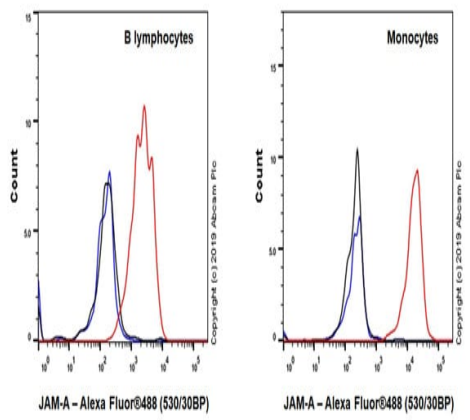
Lane 1: HT-29 whole cell lysate 10µg.

Lane 2: ab269948 IP in HT-29 whole cell lysate.

Lane 3: Rabbit monoclonal IgG (**ab172730**) instead of ab269948 in HT-29 whole cell lysate.

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

Exposure time: 15 seconds.

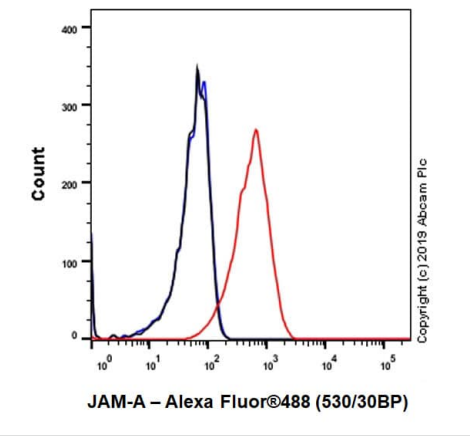


Flow Cytometry - Anti-Junctional Adhesion Molecule 1/JAM-A antibody [EPR23244-12] (ab269948)

Flow cytometric analysis of human B lymphocytes (Left) / human monocytes (Right) cells labeling Junctional Adhesion Molecule 1/JAM-A with ab269948 at 1/500 compared with a Rabbit monoclonal IgG (**ab172730**) / Black isotype control and an unlabeled control (cells without incubation with primary antibody and secondary antibody) (Blue). Goat anti rabbit IgG (Alexa Fluor® 488, **ab150077**) at 1/2000 was used as the secondary antibody.

Human peripheral blood mononuclear cell (PBMC) co-stained with anti-CD19 conjugated to PE-Cy7 and anti-CD14 conjugated to BV510. JAM-A expression on B lymphocytes (CD19+) and monocytes (CD14+) population are shown respectively.

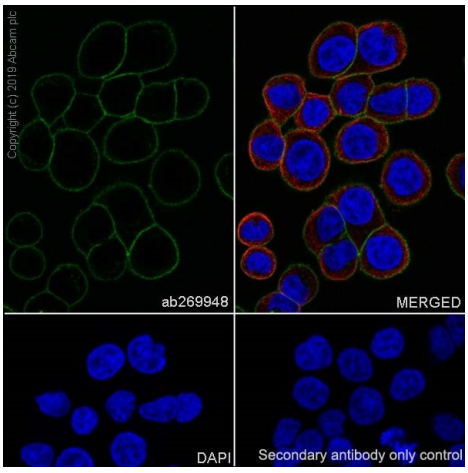
Gated on viable cells.



Flow Cytometry - Anti-Junctional Adhesion Molecule 1/JAM-A antibody [EPR23244-12] (ab269948)

Flow cytometric analysis of HT-29 (Human colorectal adenocarcinoma epithelial cell) cells labeling Junctional Adhesion Molecule 1/JAM-A with ab269948 at 1/500 compared with a Rabbit monoclonal IgG (**ab172730**) / Black isotype control and an unlabeled control (cells without incubation with primary antibody and secondary antibody) (Blue). Goat anti rabbit IgG (Alexa Fluor® 488, **ab150077**) at 1/2000 was used as the secondary antibody.

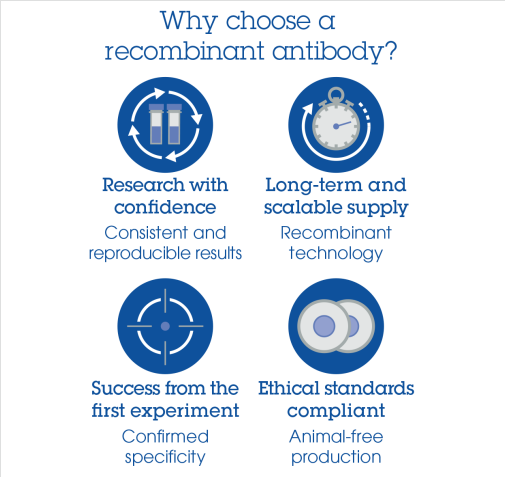
Gated on viable cells.



Immunocytochemistry/ Immunofluorescence - Anti-Junctional Adhesion Molecule 1/JAM-A antibody [EPR23244-12] (ab269948)

Immunofluorescent analysis of 4% Paraformaldehyde-fixed, 0.1% Triton X-100 permeabilized HT-29 (human colorectal adenocarcinoma epithelial cell) cells labeling Junctional Adhesion Molecule 1/JAM-A with ab269948 at 1/50 dilution, followed by **ab150077** AlexaFluor®488 Goat anti-Rabbit secondary antibody at 1/1000 dilution (Green). Confocal image showing membranous staining in HT-29 cell line is observed. **ab195889** Anti-alpha Tubulin antibody [DM1A] - 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: **ab150077** AlexaFluor®488 Goat anti-Rabbit secondary at 1/1000 dilution.



Anti-Junctional Adhesion Molecule 1/JAM-A antibody [EPR23244-12] (ab269948)

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