

Product datasheet

Anti-Junctional Adhesion Molecule 1/JAM-A antibody [EPR23246-275] - BSA and Azide free ab272172

Recombinant RabMAb

4 Images

Overview

Product name	Anti-Junctional Adhesion Molecule 1/JAM-A antibody [EPR23246-275] - BSA and Azide free
Description	Rabbit monoclonal [EPR23246-275] to Junctional Adhesion Molecule 1/JAM-A - BSA and Azide free
Host species	Rabbit
Tested applications	Suitable for: Flow Cyt, WB, ICC/IF, IP
Species reactivity	Reacts with: Mouse, Human
Immunogen	Recombinant fragment. This information is proprietary to Abcam and/or its suppliers.
Positive control	WB: bEnd.3, Mouse testis, Mouse brain and RAW264.7, Recombinant Mouse JAM-A Fc Chimera Protein lysates. ICC/IF: bEnd.3 cell. Flow Cyt: Neuro-2a cell. IP: bEnd.3 cell.
General notes	ab272172 is the carrier-free version of ab270446 .

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.

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.

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.

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.

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. Do Not Freeze.
Storage buffer	pH: 7.2 Constituent: PBS
Carrier free	Yes
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR23246-275
Isotype	IgG

Applications

The Abpromise guarantee Our [Abpromise guarantee](#) covers the use of ab272172 in the following tested applications.

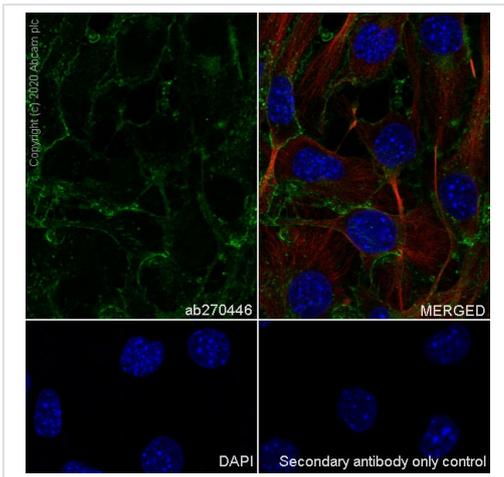
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
Flow Cyt		Use at an assay dependent concentration.
WB		Use at an assay dependent concentration. Predicted molecular weight: 32 kDa.
ICC/IF		Use at an assay dependent concentration.
IP		Use at an assay dependent concentration.

Target

Function	Seems to play 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

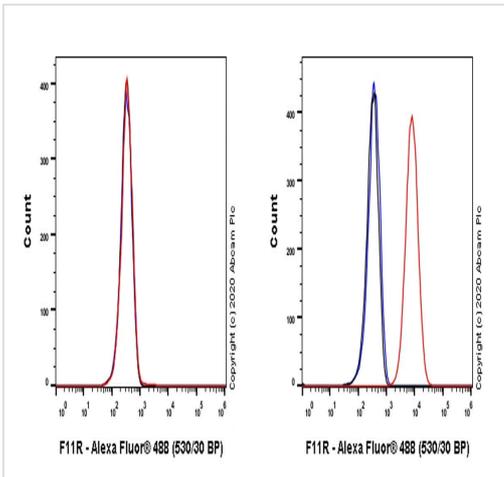


Immunocytochemistry/ Immunofluorescence - Anti-Junctional Adhesion Molecule 1/JAM-A antibody [EPR23246-275] - BSA and Azide free (ab272172)

Immunofluorescent analysis of 4% Paraformaldehyde-fixed, 0.1% TritonX-100 permeabilized bEnd.3 cells labelling Junctional Adhesion Molecule 1/JAM-A with [ab270446](#) at 1/50 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 bEnd.3 cell line [ab195889](#) Anti-alpha Tubulin antibody (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 1000 dilution.

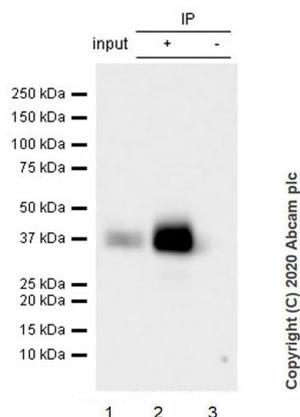
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide ([ab270446](#)).



Flow Cytometry - Anti-Junctional Adhesion Molecule 1/JAM-A antibody [EPR23246-275] - BSA and Azide free (ab272172)

Flow cytometric analysis of Neuro-2a (Mouse neuroblastoma neuroblast, Left) / bEnd.3 (Mouse brain endothelioma, Right) cells labelling Junctional Adhesion Molecule 1/JAM-A with [ab270446](#) at 1/600 dilution (0.1ug) (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.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide ([ab270446](#)).



Immunoprecipitation - Anti-Junctional Adhesion Molecule 1/JAM-A antibody [EPR23246-275] - BSA and Azide free (ab272172)

Junctional Adhesion Molecule 1/JAM-A was immunoprecipitated from 0.35 mg bEnd.3 (mouse brain endothelioma), whole cell lysate with [ab270446](#) at 1/30 dilution (2ug in 0.35mg lysates). Western blot was performed on the immunoprecipitate using [ab270446](#) at 1/1000 dilution. VeriBlot for IP Detection Reagent (HRP) ([ab131366](#)) was used at 1/5000 dilution.

Lane 1: bEnd.3 (mouse brain endothelioma), whole cell lysate 10 ug

Lane 2: [ab270446](#) IP in bEnd.3 whole cell lysate

Lane 3: Rabbit monoclonal IgG ([ab172730](#)) instead of [ab270446](#) in bEnd.3 whole cell lysate

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

Exposure time: 10 seconds

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide ([ab270446](#)).

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

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

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