

Product datasheet

Anti-Junctional Adhesion Molecule 1/JAM-A antibody [EP1042Y] - BSA and Azide free ab232338

KO VALIDATED Recombinant RabMAb[®]

[1 References](#) [3 Images](#)

Overview

Product name	Anti-Junctional Adhesion Molecule 1/JAM-A antibody [EP1042Y] - BSA and Azide free
Description	Rabbit monoclonal [EP1042Y] to Junctional Adhesion Molecule 1/JAM-A - BSA and Azide free
Host species	Rabbit
Tested applications	Suitable for: IHC-P, WB
Species reactivity	Reacts with: Human
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
Positive control	WB: HAP1 whole cell lysate.
General notes	<p>ab232338 is the carrier-free version of ab52647.</p> <p>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.</p> <p>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.</p> <p>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.</p> <p>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.</p> <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>

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	EP1042Y
Isotype	IgG

Applications

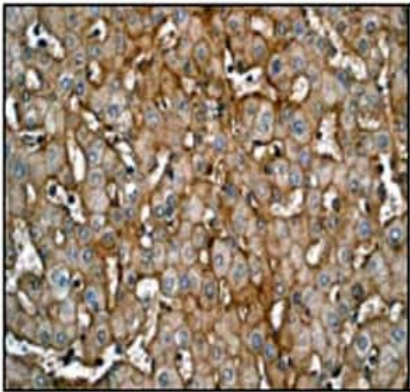
The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab232338 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
IHC-P		Use at an assay dependent concentration.
WB		Use at an assay dependent concentration. Detects a band of approximately 33 kDa (predicted molecular weight: 33 kDa).

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.

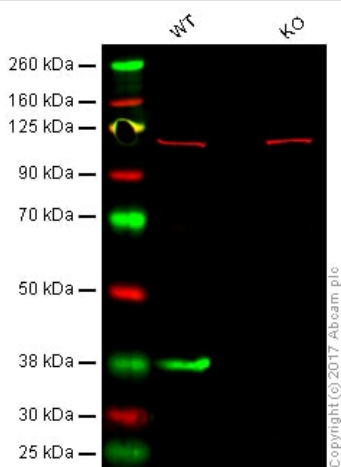
Images



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Junctional Adhesion Molecule 1/JAM-A antibody [EP1042Y] - BSA and Azide free (ab232338)

Immunohistochemical staining of paraffin-embedded human liver using unpurified [ab52647](#) at a 1/100 dilution.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide ([ab52647](#)).



Western blot - Anti-Junctional Adhesion Molecule 1/JAM-A antibody [EP1042Y] - BSA and Azide free (ab232338)

Lane 1: Wild-type HAP1 whole cell lysate (40 µg)

Lane 2: Junctional Adhesion Molecule 1/JAM-A knockout HAP1 whole cell lysate (40 µg)

Lanes 1 - 2: Merged signal (red and green). Green - [ab52647](#) observed at 32 kDa. Red - loading control, [ab18058](#), observed at 130 kDa.

[ab52647](#) was shown to specifically react with Junctional Adhesion Molecule 1/JAM-A in wild-type HAP1 cells as signal was lost in Junctional Adhesion Molecule 1 knockout cells. Wild-type and Junctional Adhesion Molecule 1/JAM-A knockout samples were subjected to SDS-PAGE. [ab52647](#) and [ab18058](#) (Mouse anti-Vinculin loading control) were incubated overnight at 4°C at 1/1000 dilution and 1/20000 dilution respectively. Blots were developed with Goat anti-Rabbit IgG H&L (IRDye® 800CW) preabsorbed [ab216773](#) and Goat anti-Mouse IgG H&L (IRDye® 680RD) preabsorbed [ab216776](#) secondary antibodies at 1/20000 dilution for 1 hour at room temperature before imaging.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide ([ab52647](#)).

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

Anti-Junctional Adhesion Molecule 1/JAM-A
antibody [EP1042Y] - BSA and Azide free
(ab232338)

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