

Product datasheet

Anti-CD9 antibody [EPR2949] ab92726

KO **VALIDATED** Recombinant RabMAB

★★★★☆ 12 Abreviews 303 References 13 Images

Overview

Product name	Anti-CD9 antibody [EPR2949]
Description	Rabbit monoclonal [EPR2949] to CD9
Host species	Rabbit
Tested applications	Suitable for: WB, IP, IHC-P Unsuitable for: Flow Cyt or ICC/IF
Species reactivity	Reacts with: Mouse, Rat, Human
Immunogen	Synthetic peptide within Human CD9 aa 200 to the C-terminus. The exact sequence is proprietary. Database link: P21926
Positive control	WB: HeLa, HuT-78, MCF7 and U87-MG cell lysates. Mouse heart and kidney lysate; Rat brain lysate. IHC-P: Human papillary carcinoma, astrocytoma, brain, kidney and tonsil tissue; Rat spleen tissue. IP: HeLa whole cell lysate (ab150035).
General notes	<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> <p>We are constantly working hard to ensure we provide our customers with best in class antibodies. As a result of this work we are pleased to now offer this antibody in purified format. We are in the process of updating our datasheets. The purified format is designated 'PUR' on our product labels. If you have any questions regarding this update, please contact our Scientific Support team.</p>

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. Stable for 12 months at -20°C.

Storage buffer	pH: 7.20 Preservative: 0.01% Sodium azide Constituents: PBS, 40% Glycerol, 0.05% BSA
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR2949
Isotype	IgG

Applications

The Abpromise guarantee Our [Abpromise guarantee](#) covers the use of ab92726 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

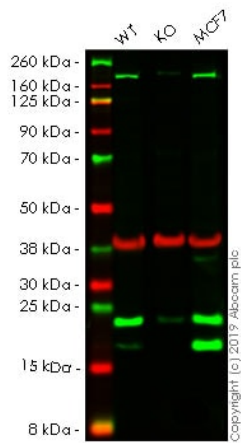
Application	Abreviews	Notes
WB	★★★★★ (6)	1/2000. Predicted molecular weight: 25 kDa. For WB related protocols, please refer to the Protocols section below.
IP		1/10 - 1/100.
IHC-P	★★★★★ (2)	1/500. Perform heat mediated antigen retrieval before commencing with IHC staining protocol. See IHC antigen retrieval protocols .

Application notes Is unsuitable for Flow Cyt or ICC/IF.

Target

Function	Involved in platelet activation and aggregation. Regulates paranodal junction formation. Involved in cell adhesion, cell motility and tumor metastasis. Required for sperm-egg fusion.
Tissue specificity	Expressed by a variety of hematopoietic and epithelial cells.
Sequence similarities	Belongs to the tetraspanin (TM4SF) family.
Post-translational modifications	Protein exists in three forms with molecular masses between 22 and 27 kDa, and is known to carry covalently linked fatty acids.
Cellular localization	Membrane.

Images



Western blot - Anti-CD9 antibody [EPR2949] (ab92726)

All lanes : Anti-CD9 antibody [EPR2949] (ab92726) at 1/1000 dilution

Lane 1 : Wild-type A549 whole cell lysate

Lane 2 : CD9 knockout A549 whole cell lysate

Lane 3 : MCF7 whole cell lysate

Lysates/proteins at 20 µg per lane.

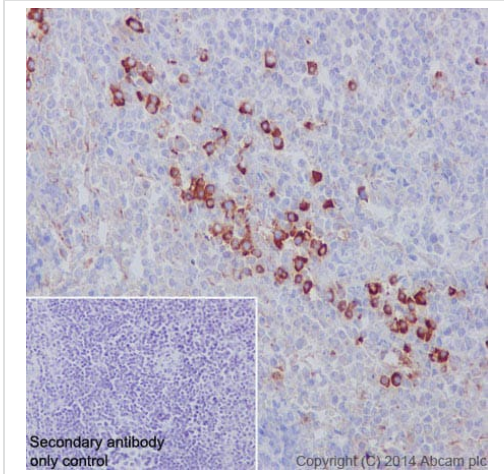
Predicted band size: 25 kDa

Observed band size: 18 kDa

Additional bands at: 23 kDa (possible non-specific binding)

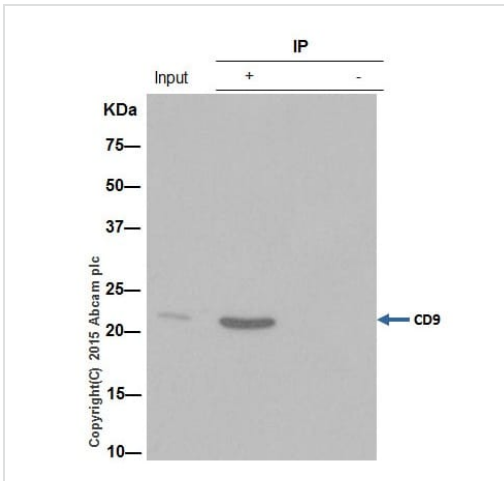
Lanes 1 - 3: Merged signal (red and green). Green - ab92726 observed at 22 kDa. Red - loading control, [ab9484](#), observed at 37 kDa.

ab92726 was shown to recognize CD9 in wild-type A549 cells as signal was lost at the expected MW in CD9 knockout cells. Additional cross-reactive bands were observed in the wild-type and knockout cells. Wild-type and CD9 knockout samples were subjected to SDS-PAGE. The membrane was blocked with 3% Milk. Ab92726 and [ab9484](#) (Mouse anti-GAPDH 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.



Immunohistochemical staining of paraffin embedded rat spleen with purified ab92726 at a working dilution of 1/500. The secondary antibody used is HRP goat anti-rabbit IgG H&L (ab97051) at 1/500. The sample is counter-stained with hematoxylin. [Antigen retrieval](#) was performed using Tris-[EDTA buffer](#), pH 9.0. PBS was used instead of the primary antibody as the negative control, and is shown in the inset.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD9 antibody [EPR2949] (ab92726)

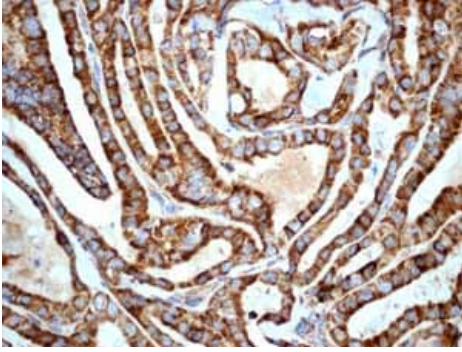


ab92726 (purified) at 1/20 immunoprecipitating CD9 in 10 µg HeLa (Lanes 1 and 2, observed at 24 kDa). Lane 3 - PBS. For western blotting, a HRP-conjugated anti-rabbit IgG, specific to the non-reduced form of IgG was used as the secondary antibody (1/1500).

Blocking buffer and concentration: 5% NFDM/TBST

Dilution buffer and concentration: 5% NFDM/TBST

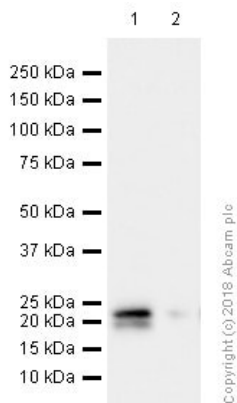
Immunoprecipitation - Anti-CD9 antibody [EPR2949] (ab92726)



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD9 antibody [EPR2949] (ab92726)

Formalin-fixed, paraffin-embedded Papillary carcinoma of thyroid gland tissue stained for CD9 using ab92726 at 1/500 dilution in immunohistochemical analysis.

Perform heat mediated [antigen retrieval](#) before commencing with IHC staining protocol.



Western blot - Anti-CD9 antibody [EPR2949] (ab92726)

All lanes : Anti-CD9 antibody [EPR2949] (ab92726) at 1/1000 dilution

Lane 1 : MCF7 (Human breast adenocarcinoma epithelial cell). Whole cell lysates with 5% NFD/MTBST

Lane 2 : Daudi (Human Burkitt's lymphoma lymphoblast). Whole cell lysates. (negative/low expression control) with 5% NFD/MTBST

Lysates/proteins at 20 µg per lane.

Secondary

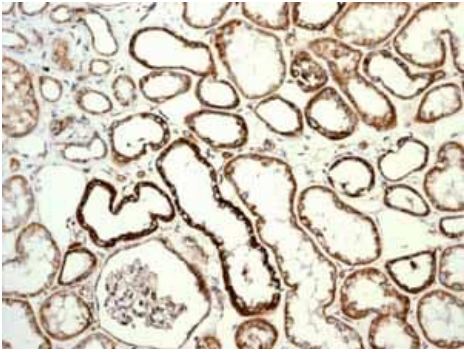
All lanes : Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/20000 dilution (Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated)

Predicted band size: 25 kDa

Observed band size: 18 kDa

Additional bands at: 23 kDa (possible non-specific binding)

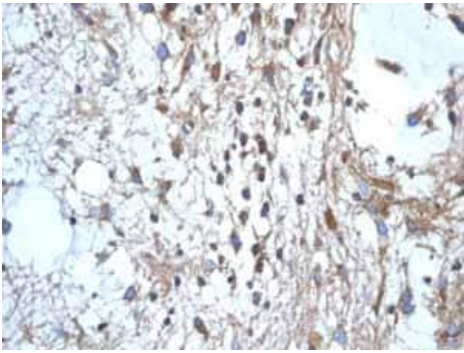
Exposure time: 3 seconds



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD9 antibody [EPR2949] (ab92726)

Formalin-fixed, paraffin-embedded Normal kidney tissue stained for CD9 using ab92726 at 1/500 dilution in immunohistochemical analysis.

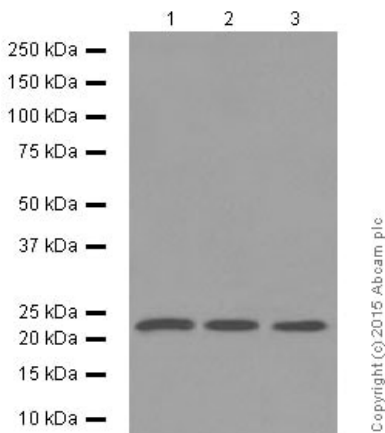
Perform heat mediated [antigen retrieval](#) before commencing with IHC staining protocol.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD9 antibody [EPR2949] (ab92726)

Formalin-fixed, paraffin-embedded Astrocytoma tissue stained for CD9 using ab92726 at 1/500 dilution in immunohistochemical analysis.

Perform heat mediated [antigen retrieval](#) before commencing with IHC staining protocol.



Western blot - Anti-CD9 antibody [EPR2949] (ab92726)

All lanes : Anti-CD9 antibody [EPR2949] (ab92726) at 1/10000 dilution (purified)

Lane 1 : HeLa cell lysate

Lane 2 : HuT-78 cell lysate

Lane 3 : U87-MG cell lysate

Lysates/proteins at 20 µg per lane.

Secondary

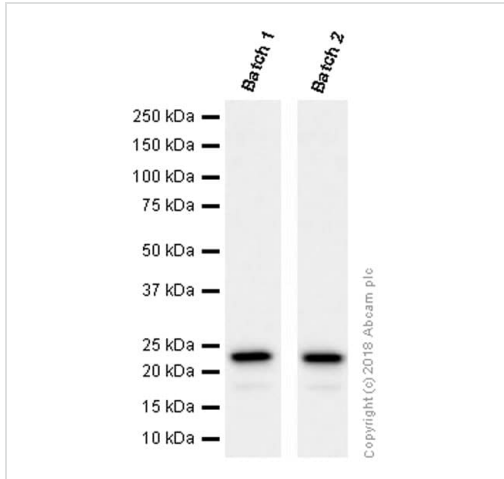
All lanes : HRP goat anti-rabbit IgG (H+L) at 1/1000 dilution

Predicted band size: 25 kDa

Observed band size: 24 kDa

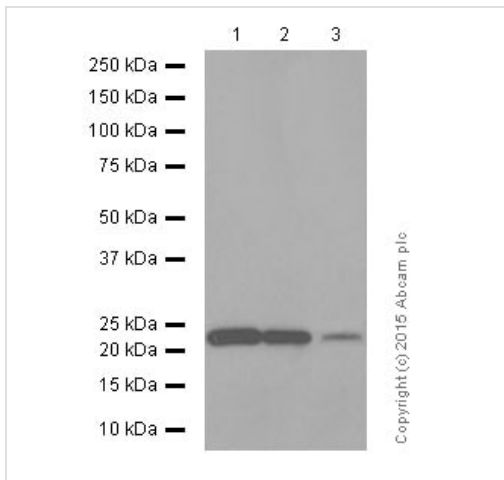
Blocking buffer: 5% NFDM/TBST

Dilution buffer: 5% NFDM/TBST



Western blot - Anti-CD9 antibody [EPR2949]
(ab92726)

Different batches of ab92726 were tested on Raji (Human Burkitt's lymphoma B lymphocyte) lysate at 0.1 µg/ml. 15 µg of lysate was loaded in each lane. Bands observed at 24 kDa.



Western blot - Anti-CD9 antibody [EPR2949]
(ab92726)

All lanes : Anti-CD9 antibody [EPR2949] (ab92726) at 1/2000 dilution (purified)

Lane 1 : mouse heart lysate

Lane 2 : mouse kidney lysate

Lane 3 : rat brain lysate

Lysates/proteins at 20 µg per lane.

Secondary

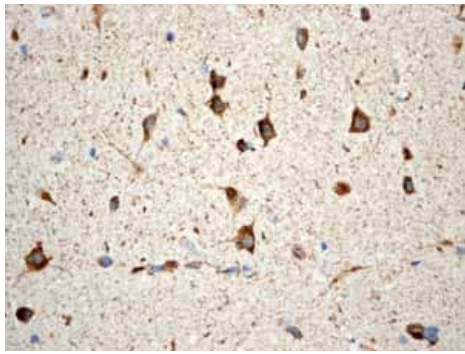
All lanes : HRP goat anti-rabbit IgG (H+L) at 1/1000 dilution

Predicted band size: 25 kDa

Observed band size: 24 kDa

Blocking buffer: 5% NFDM/TBST

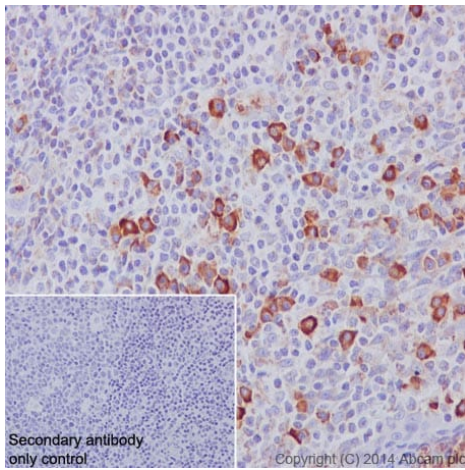
Dilution buffer: 5% NFDM/TBST



Formalin-fixed, paraffin-embedded Normal brain tissue stained for CD9 using ab92726 at 1/500 dilution in immunohistochemical analysis.

Perform heat mediated [antigen retrieval](#) before commencing with IHC staining protocol.





Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD9 antibody [EPR2949] (ab92726)



Immunohistochemical staining of paraffin embedded human tonsil with purified ab92726 at a working dilution of 1/500. The secondary antibody used is HRP goat anti-rabbit IgG H&L ([ab97051](#)) at 1/500. The sample is counter-stained with hematoxylin. [Antigen retrieval](#) was performed using Tris-EDTA buffer, pH 9.0. PBS was used instead of the primary antibody as the negative control, and is shown in the inset.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD9 antibody [EPR2949] (ab92726)

Why choose a recombinant antibody?

 <p>Research with confidence Consistent and reproducible results</p>	 <p>Long-term and scalable supply Recombinant technology</p>
 <p>Success from the first experiment Confirmed specificity</p>	 <p>Ethical standards compliant Animal-free production</p>

Anti-CD9 antibody [EPR2949] (ab92726)

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