Product datasheet

Anti-CD9 antibody [EPR2949] ab92726

Recombinant RabMab

Overview

Product name Anti-CD9 antibody [EPR2949]
Description Rabbit monoclonal [EPR2949] to CD9
Host species Rabbit
Tested applications Suitable for: WB, IP, IHC-P
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 lysates; Rat brain lysate.
IHC-P: Human papillary carcinoma, astrocytoma, brain, kidney and tonsil tissue; Rat spleen tissue.
ICC/IF: Mouse peritoneal macrophages.
IP: HeLa cell lysate.
General notes Abcam recommended secondaries - Goat Anti-Rabbit HRP (ab205718) and Goat Anti-Rabbit Alexa Fluor® 488 (ab150077).
Our RabMab® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMab® patents.
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.
This product is a recombinant rabbit monoclonal antibody.

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
### Applications

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.

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<th>Abreviews</th>
<th>Notes</th>
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<td>IP</td>
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<td>1/10 - 1/100.</td>
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<tr>
<td>IHC-P</td>
<td></td>
<td>1/500. Perform heat mediated antigen retrieval before commencing with IHC staining protocol. See <a href="#">IHC antigen retrieval protocols</a>.</td>
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### 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
All lanes: Anti-CD9 antibody [EPR2949] (ab92726) at 1/1000 dilution

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

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

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: 22 kDa

why is the actual band size different from the predicted?

Exposure time: 3 seconds

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.
Immunoprecipitation - 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

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 why is the actual band size different from the predicted?

Blocking buffer: 5% NFDM/TBST
Dilution buffer: 5% NFDM/TBST
Unpurified ab92726 showing positive staining in Normal kidney tissue.

**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  
*why is the actual band size different from the predicted?*

Blocking buffer: 5% NFDM/TBST  
Dilution buffer: 5% NFDM/TBST
Unpurified ab92726 showing positive staining in Papillary carcinoma of thyroid gland tissue.

Unpurified ab92726 showing positive staining in Astrocytoma tissue.

Unpurified ab92726 showing positive staining in Normal brain tissue.
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.

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