Product name: Anti-Integrin alpha V antibody [EPR19669] ab208012

Description: Rabbit monoclonal [EPR19669] to Integrin alpha V

Host species: Rabbit

Tested applications: Suitable for: IHC-P, WB

Species reactivity: Reacts with: Mouse, Rat, Human

Immunogen: Recombinant fragment within Human Integrin alpha V aa 600-900. The exact sequence is proprietary. Database link: P06756

Positive control: WB: A549, A431, HT-29, HUVEC, C6, PC-12, NIH/3T3 and RAW 264.7 whole cell lysates; human fetal brain, fetal heart and fetal kidney lysates; mouse brain, kidney and spleen lysates; rat kidney and spleen lysates. IHC-P: Human kidney and bladder cancer tissues.

General notes: Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb® patents. This product is a recombinant rabbit monoclonal antibody.

Properties

Form: Liquid


Storage buffer: Preservative: 0.01% Sodium azide
Constituents: 59% PBS, 40% Glycerol, 0.05% BSA

Purity: Protein A purified

Clonality: Monoclonal

Clone number: EPR19669

Isotype: IgG
The alpha-V integrins are receptors for vitronectin, cytotactin, fibronectin, fibrinogen, laminin, matrix metalloproteinase-2, osteopontin, osteomodulin, prothrombin, thrombospondin and vWF. They recognize the sequence R-G-D in a wide array of ligands. In case of HIV-1 infection, the interaction with extracellular viral Tat protein seems to enhance angiogenesis in Kaposi's sarcoma lesions.

**Function**

The alpha-V integrins are receptors for vitronectin, cytotactin, fibronectin, fibrinogen, laminin, matrix metalloproteinase-2, osteopontin, osteomodulin, prothrombin, thrombospondin and vWF. They recognize the sequence R-G-D in a wide array of ligands. In case of HIV-1 infection, the interaction with extracellular viral Tat protein seems to enhance angiogenesis in Kaposi's sarcoma lesions.

**Sequence similarities**

Belongs to the integrin alpha chain family.
Contains 7 FG-GAP repeats.

**Cellular localization**

Membrane.

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**Applications**

Our Abpromise guarantee covers the use of ab208012 in the following tested applications.

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

<table>
<thead>
<tr>
<th>Application</th>
<th>Abreviews</th>
<th>Notes</th>
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</thead>
<tbody>
<tr>
<td>IHC-P</td>
<td>1/500. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol. IHC is recommended for human only.</td>
<td></td>
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<tr>
<td>WB</td>
<td>1/2000. Detects a band of approximately 130-140 kDa (predicted molecular weight: 87 kDa).</td>
<td></td>
</tr>
</tbody>
</table>

**Target**

**Function**

The alpha-V integrins are receptors for vitronectin, cytotactin, fibronectin, fibrinogen, laminin, matrix metalloproteinase-2, osteopontin, osteomodulin, prothrombin, thrombospondin and vWF. They recognize the sequence R-G-D in a wide array of ligands. In case of HIV-1 infection, the interaction with extracellular viral Tat protein seems to enhance angiogenesis in Kaposi’s sarcoma lesions.

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**Images**

**All lanes** : Anti-Integrin alpha V antibody [EPR19669] (ab208012) at 1/2000 dilution

**Lane 1** : A549 (Human lung carcinoma cell line) whole cell lysate
**Lane 2** : A431 (Human epidermoid carcinoma cell line) whole cell lysate
**Lane 3** : HT-29 (Human colorectal adenocarcinoma cell line) whole cell lysate
**Lane 4** : HUVEC (Human umbilical vein endothelial cell line) whole cell lysate

Lysates/proteins at 10 µg per lane.

**Secondary**

**All lanes** : Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/100000 dilution

**Predicted band size**: 87 kDa
**Observed band size**: 130-140 kDa
why is the actual band size different from the predicted?

**Exposure time**: 5 seconds

Blocking/Dilution buffer: 5% NFDM/TBST.

The molecular weight observed is consistent with what has been described in the literature (PMID: 22740495)

**All lanes**: Anti-Integrin alpha V antibody [EPR19669] (ab208012) at 1/2000 dilution

**Lane 1**: Human fetal brain lysate
**Lane 2**: Human fetal heart lysate
**Lane 3**: Human fetal kidney lysate

Lysates/proteins at 10 µg per lane.

Secondary

**All lanes**: Goat Anti-Rabbit IgG Peroxidase Conjugate, specific to the non-reduced form of IgG at 1/10000 dilution

**Predicted band size**: 87 kDa
**Observed band size**: 130-140 kDa

why is the actual band size different from the predicted?

**Exposure time**: 15 seconds

Blocking/Dilution buffer: 5% NFDM/TBST.

**All lanes**: Anti-Integrin alpha V antibody [EPR19669] (ab208012) at 1/2000 dilution

**Lane 1**: C6 (Rat glial tumor cell line) whole cell lysate
**Lane 2**: PC-12 (Rat adrenal gland pheochromocytoma cell line) whole cell lysate
**Lane 3**: NIH/3T3 (Mouse embryonic fibroblast cell line) whole cell lysate
**Lane 4**: RAW 264.7 (Mouse macrophage cell line transformed with Abelson murine leukemia virus) whole cell lysate
**Lane 5**: Mouse brain lysate
Lane 6: Mouse kidney lysate  
Lane 7: Mouse spleen lysate 
Lane 8: Rat kidney lysate  
Lane 9: Rat spleen lysate

Lysates/proteins at 10 µg per lane.

**Secondary**

*All lanes*: Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 100000 µg

**Predicted band size**: 87 kDa  
**Observed band size**: 130-140 kDa  
*why is the actual band size different from the predicted?*

Blocking/Dilution buffer: 5% NFDM/TBST.

Exposure time: Lane 1-3: 5 seconds; Lane 4/9: 30 seconds; Lane 5-7: 1 minute; Lane 8: 15 seconds.

Immunohistochemical analysis of paraffin-embedded human kidney tissue labeling CD51 with ab208012 at 1/500 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/500 dilution.

Cytoplasmic and membrane staining on human kidney is observed.  
Counter stained with Hematoxylin.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/500 dilution.

Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.
Immunohistochemical analysis of paraffin-embedded human bladder cancer tissue labeling CD51 with ab208012 at 1/500 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/500 dilution.

Membrane staining on human bladder cancer is observed.

Counter stained with Hematoxylin.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/500 dilution.

Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

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

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