abcam

Product datasheet

Anti-Integrin alpha V antibody [EPR16800] - Low endotoxin, Azide free ab222222

Recombinant RabMAb

1 References 6 Images

Overview

Product name	Anti-Integrin alpha V antibody [EPR16800] - Low endotoxin, Azide free
Description	Rabbit monoclonal [EPR16800] to Integrin alpha V - Low endotoxin, Azide free
Tested applications	**Suitable for:** WB, IHC-P, ICC/IF, IP
Species reactivity	**Reacts with:** Mouse, Rat, Human
Immunogen	Recombinant fragment. This information is proprietary to Abcam and/or its suppliers.
Positive control	WB: HUVEC, HT-29, A549, C6 and NIH/3T3 whole cell lysates; Human fetal kidney and fetal brain lysates; Mouse brain, kidney and spleen lysates; Rat brain and kidney lysates. IHC: Human kidney, Human transitional cell carcinoma of bladder and Mouse kidney tissues. ICC/IF: A549 cells. IP: A549 whole cell extract.
General notes	ab222222 is the carrier-free version of **ab179475**. 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**.

Our **Low endotoxin, azide-free formats** have low endotoxin level (≤ 1 EU/ml, determined by the LAL assay) and are free from azide, to achieve consistent experimental results in functional assays.

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	EPR16800
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab222222 in the following tested applications.

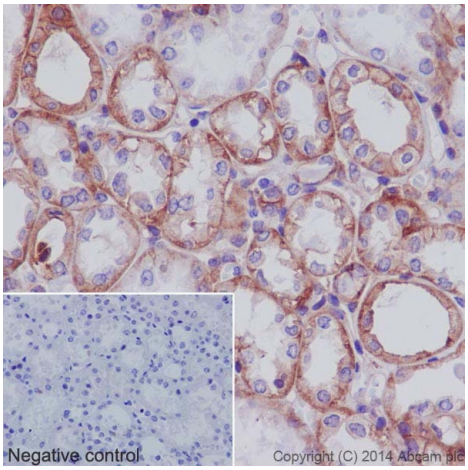
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		Use at an assay dependent concentration.
IHC-P		Use at an assay dependent concentration. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.
ICC/IF		Use at an assay dependent concentration.
IP		Use at an assay dependent concentration.

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.
Sequence similarities	Belongs to the integrin alpha chain family. Contains 7 FG-GAP repeats.
Cellular localization	Membrane.

Images

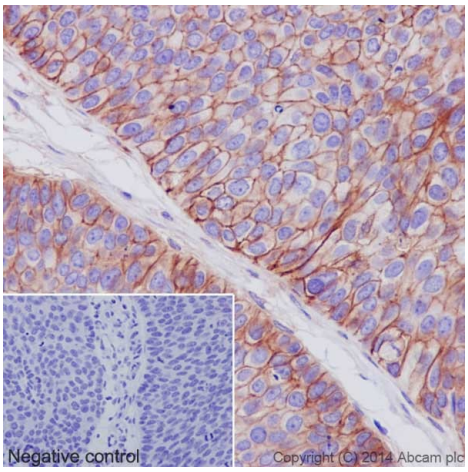


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Integrin alpha V antibody [EPR16800] - Low endotoxin, Azide free (ab222222)

Immunohistochemical analysis of paraffin-embedded human kidney tissue labeling Integrin alpha V with **ab179475** at 1/500 dilution followed by Goat Anti-Rabbit HRP (IgG H&L) (**ab97051**) secondary antibody at 1/500 dilution. Membrane and cytoplasm staining on human kidney tubules is observed. Counter stained with Hematoxylin.
Negative control: Using PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/500 dilution.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab179475**).

Heat mediated antigen retrieval was performed with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

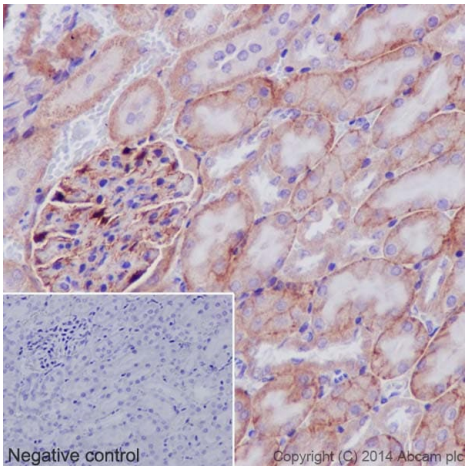


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Integrin alpha V antibody [EPR16800] - Low endotoxin, Azide free (ab222222)

Immunohistochemical analysis of paraffin-embedded human transitional cell carcinoma of bladder tissue labeling Integrin alpha V with **ab179475** at 1/500 dilution followed by Goat Anti-Rabbit HRP (IgG H&L) (**ab97051**) secondary antibody at 1/500 dilution. Membrane and weak cytoplasm staining on human transitional cell carcinoma of bladder is observed. Counter stained with Hematoxylin.
Negative control: Using PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/500 dilution.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab179475**).

Heat mediated antigen retrieval was performed with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

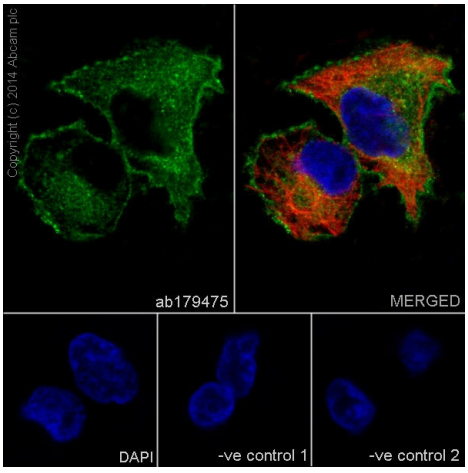


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Integrin alpha V antibody [EPR16800] - Low endotoxin, Azide free (ab222222)

Immunohistochemical analysis of paraffin-embedded mouse kidney tissue labeling Integrin alpha V with **ab179475** at 1/500 dilution followed by Goat Anti-Rabbit HRP (IgG H&L) (**ab97051**) secondary at 1/500 dilution. Membrane and cytoplasm staining on mouse kidney tubule and glomerulus is observed. Counter stained with Hematoxylin.
Negative control: Using PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/500 dilution.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab179475**).

Heat mediated antigen retrieval was performed with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.



Immunocytochemistry/ Immunofluorescence - Anti-Integrin alpha V antibody [EPR16800] - Low endotoxin, Azide free (ab222222)

Immunofluorescent analysis of 100% methanol-fixed, 0.1% Triton X-100 permeabilized A549 (Human lung carcinoma) cells labeling Integrin alpha V with **ab179475** at 1/500 dilution, followed by Goat anti-rabbit Alexa Fluor® 488 (IgG) (**ab150077**) secondary antibody at 1/400 dilution (green). Confocal image showing membrane and cytoplasm staining on A549 cell line. The nuclear counterstain is DAPI (blue). Tubulin is detected with **ab7291** (anti-Tubulin mouse mAb) at 1/500 dilution and **ab150120** (goat anti-mouse AlexaFluor®594 secondary antibody) at 1/500 dilution (red).

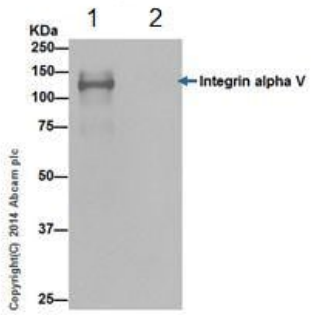
The negative controls are as follows:

-ve control 1: **ab179475** at 1/500 dilution followed by **ab150120** (AlexaFluor®594 Goat anti-Mouse secondary) at 1/500 dilution.

-ve control 2: **ab7291** (anti-Tubulin mouse mAb) at 1/500 dilution followed by **ab150077** (Alexa Fluor®488 Goat Anti-Rabbit IgG H&L) at 1/400 dilution.

This data was developed using the same antibody clone in a

different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab179475**).



Immunoprecipitation - Anti-Integrin alpha V antibody [EPR16800] - Low endotoxin, Azide free (ab222222)

Integrin alpha V was immunoprecipitated from 1 mg of A549 (Human lung carcinoma) whole cell extract with **ab179475** at 1/40 dilution. Western blot analysis was performed from the immunoprecipitate using **ab179475** at 1/1000 dilution. Anti-Rabbit IgG (HRP), specific to the non-reduced form of IgG, was used as secondary antibody at 1/1500 dilution.

Lane 1: A549 whole cell extract.

Lane 2: PBS instead of A549 whole cell extract.

Blocking/Dilution buffer and concentration: 5% NFDM/TBST.

ab179475 can recognize 135kDa full length Integrin alpha V and 125kDa heavy chain. The 125 kDa band is Integrin alpha V heavy chain.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab179475**).

Anti-Integrin alpha V antibody [EPR16800] - Low endotoxin, Azide free (ab222222)

- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit **https://www.abcam.com/abpromise** or contact our technical team.

Terms and conditions

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors