abcam

ab312854

Anti-Vaccinia Virus antibody [EPR28236-80]

Recombinant | RabMAb | 20ul selling size

Key facts

Isotype	IgG
Host species	Rabbit
Storage buffer	pH: 7.2 - 7.4 Preservative: 0.01% Sodium azide Constituents: PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA
Form	Liquid
Clonality	Monoclonal
Immunogen	The exact immunogen used to generate this antibody is proprietary information.
Clone number	EPR28236-80
Purification technique	Affinity purification Protein A
Concentration	0.514 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →

Reactivity data

IHC-P

Tested

Species	Vaccinia virus
Dilution info	1/100
Notes	Perform heat-mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

Species	Transfected cell line - Vaccinia virus
Dilution info	1/100
Notes	Perform heat-mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

Not recommended

Species	Transfected cell lysate - Vaccinia virus, Recombinant fragment - Vaccinia virus
Dilution info	-
Notes	-

Flow Cyt (Intra)

Tested

Species	Vaccinia virus
Dilution info	1/500
Notes	-

Species	Transfected cell line - Vaccinia virus
Dilution info	1/500
Notes	-

Not recommended

Species	Transfected cell lysate - Vaccinia virus, Recombinant fragment - Vaccinia virus
Dilution info	-
Notes	-

WB

Tested

Species	Vaccinia virus
Dilution info	1/1000
Notes	-

Species	Transfected cell lysate - Vaccinia virus
Dilution info	1/1000
Notes	-

Not recommended

Species	Transfected cell line - Vaccinia virus, Recombinant fragment - Vaccinia virus
Dilution info	-
Notes	-

ICC/IF

Tested

Species	Vaccinia virus
Dilution info	1/50
Notes	-

Species	Transfected cell line - Vaccinia virus
Dilution info	1/50
Notes	-

Not recommended

Species	Transfected cell lysate - Vaccinia virus, Recombinant fragment - Vaccinia virus
Dilution info	-
Notes	-

IP

Tested

Species	Vaccinia virus
Dilution info	1/30
Notes	-

Species	Transfected cell lysate - Vaccinia virus
Dilution info	1/30
Notes	-

Not recommended

Species	Transfected cell line - Vaccinia virus, Recombinant fragment - Vaccinia virus
Dilution info	-
Notes	-

I-ELISA

Tested

Species	Vaccinia virus
Dilution info	1000 ng/mL
Notes	Use at 31.25 ng/ml

Species	Recombinant fragment - Vaccinia virus
Dilution info	1000 ng/mL
Notes	Use at 31.25 ng/ml

Not recommended

Species	Transfected cell line - Vaccinia virus, Transfected cell lysate - Vaccinia virus
Dilution info	-
Notes	-

Target data

See full target information OPG147

Function	Envelope protein part of the entry-fusion complex responsible for the virus membrane fusion with host cell membrane during virus entry. Also plays a role in cell-cell fusion (syncytium formation).

Storage

Shipped at conditions	Conditional Ambient
Appropriate short-term storage duration	1-2 weeks
Appropriate short-term storage conditions	+4°C
Appropriate long-term storage conditions	-20°C
Aliquoting information	Upon delivery aliquot
Storage information	Avoid freeze / thaw cycle

Notes

Patented technology
Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb® patents.

What are the advantages of a recombinant monoclonal antibody?
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 batch production

For more information, read more on recombinant antibodies.

Product promise

Tested

We have tested this species and application combination and it works. It is covered by our product promise.

Expected

We have not tested this specific species and application combination in-house, but expect it will work. It is covered by our product promise.

Predicted

This species and application combination has not been tested, but we predict it will work based on strong homology. However, this combination is not covered by our product promise.

Not recommended

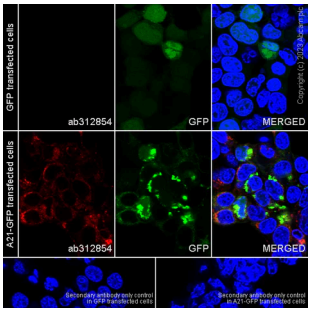
We do not recommend this combination. It is not covered by our product promise.

We are dedicated to supporting your work with high quality reagents and we are here for you every step of the way should you need us.

In the unlikely event of one of our products not working as expected, you are covered by our product promise.

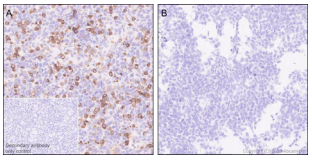
Full details and terms and conditions can be found here:
Terms & Conditions.

9 product images



Immunocytochemistry/ Immunofluorescence - Anti-Vaccinia Virus antibody [EPR28236-80] (ab312854)

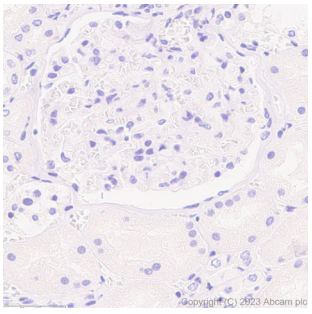
Immunofluorescent analysis of 4% Paraformaldehyde-fixed, 0.1% TritonX-100 permeabilized 293T (human embryonic kidney epithelial cell) cells labelling Vaccinia Virus with ab312854 at 1/50 (10.28 ug/ml) dilution, followed by ab150081 Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) preadsorbed antibody at 1/1000 2 ug/ml dilution (Green). Confocal image showing positive staining in 293T cells transfected with a Virion membrane protein A21 expression vector containing a GFP-tag. Image was taken with a confocal microscope(Leica-Microsystems, TCS SP8). The Nuclear counterstain was DAPI (Blue). Secondary antibody only control: Secondary antibody is ab150081 Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) preadsorbed at 1/1000 2 ug/ml dilution.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Vaccinia Virus antibody [EPR28236-80] (ab312854)

Vaccinia Virus Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-Vaccinia Virus antibody

Immunohistochemical analysis of paraffin-embedded (A) HEK-293T (human tissue labelling Vaccinia Virus with ab312854 at 1/100 (5.14 ug/ml) followed by a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection). Cytoplasmic staining on (A) HEK-293T transfected with a Virion membrane protein A21 expression vector containing a GFP-tag cell pellet; no staining on (B) HEK-293T transfected with an empty vector containing a GFP-tag cell pellet. The section was incubated with ab312854 for 30 mins at room temperature. The immunostaining was performed on a Leica Biosystems BOND® RX instrument. Counterstained with Hematoxylin. Secondary antibody only control: Secondary antibody is a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection). Heat mediated antigen retrieval was performed with Tris-EDTA buffer (pH 9.0, Epitope Retrieval Solution2) for 20 mins.

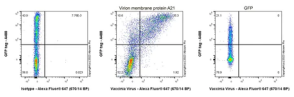


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Vaccinia Virus antibody [EPR28236-80] (ab312854)

Vaccinia Virus Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining of Human kidney using rabbit Anti-Vaccinia Virus antibody

Immunohistochemical analysis of paraffin-embedded Human kidney tissue labelling Vaccinia Virus with ab312854 at 1/100 (5.14 ug/ml) followed by a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection). Negative control: No staining on human kidney. The section was incubated with ab312854 for 30 mins at room temperature. The immunostaining was performed on a Leica Biosystems BOND® RX instrument. Counterstained with Hematoxylin. Secondary antibody only control: Secondary antibody is a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection).

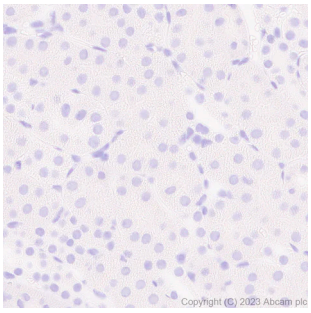
Heat mediated antigen retrieval was performed with Tris-EDTA buffer (pH 9.0, Epitope Retrieval Solution2) for 20 mins.



Flow Cytometry (Intracellular) - Anti-Vaccinia Virus antibody [EPR28236-80] (ab312854)

Vaccinia Virus Flow Cytometry (Intracellular) staining using rabbit Anti-Vaccinia Virus antibody

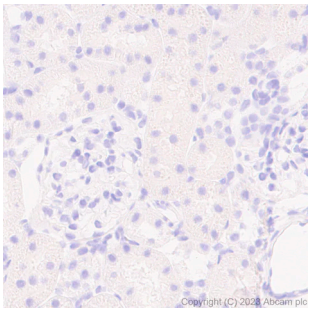
Flow cytometric analysis of 4% paraformaldehyde fixed 90% methanol permeabilized Isotype (Left) / HEK-293T (human embryonic kidney epithelial cell) transfected with a Virion membrane protein A21 expression vector containing a GFP-tag (middle) / HEK-293T cells transfected with a empty expression vector containing a GFP-tag (Right) cells labelling Vaccinia Virus with ab312854 at 1/500 dilution (0.1 ug)/ Middle and Right (Red) compared with a Rabbit monoclonal IgG (ab172730) / Left isotype control and an unlabelled control (cells without incubation with primary antibody and secondary antibody) (Blue). A Goat anti-Rabbit IgG (Alexa Fluor® 647, ab150083) at 1/5000 dilution was used as the secondary antibody.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Vaccinia Virus antibody [EPR28236-80] (ab312854)

Vaccinia Virus Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining of Mouse kidney using rabbit Anti-Vaccinia Virus antibody

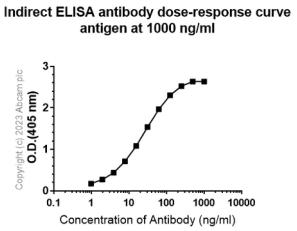
Immunohistochemical analysis of paraffin-embedded Mouse kidney tissue labelling Vaccinia Virus with ab312854 at 1/100 (5.14 ug/ml) followed by a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection). Negative control: No staining on mouse kidney. The section was incubated with ab312854 for 30 mins at room temperature. The immunostaining was performed on a Leica Biosystems BOND® RX instrument. Counterstained with Hematoxylin. Secondary antibody only control: Secondary antibody is a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection). Heat mediated antigen retrieval was performed with Tris-EDTA buffer (pH 9.0, Epitope Retrieval Solution2) for 20 mins.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Vaccinia Virus antibody [EPR28236-80] (ab312854)

Vaccinia Virus Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining of Rat kidney using rabbit Anti-Vaccinia Virus antibody

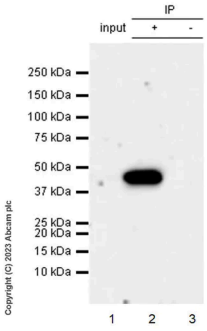
Immunohistochemical analysis of paraffin-embedded Rat kidney tissue labelling Vaccinia Virus with ab312854 at 1/100 (5.14 ug/ml) followed by a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection). Negative control: No staining on rat kidney. The section was incubated with ab312854 for 30 mins at room temperature. The immunostaining was performed on a Leica Biosystems BOND® RX instrument. Counterstained with Hematoxylin. Secondary antibody only control: Secondary antibody is a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection). Heat mediated antigen retrieval was performed with Tris-EDTA buffer (pH 9.0, Epitope Retrieval Solution2) for 20 mins.



Indirect ELISA - Anti-Vaccinia Virus antibody [EPR28236-80] (ab312854)

Indirect ELISA analysis of ab312854 at 1000-0 ng/ml. The Secondary antibody used was Alkaline Phosphatase-conjugated AffiniPure Goat Anti-Rabbit IgG (H+L) at 1:2500 dilution.
Antigen: Virion membrane protein A21.

Antigen concentration: 1000 ng/ml



Immunoprecipitation - Anti-Vaccinia Virus antibody [EPR28236-80] (ab312854)

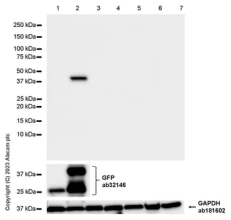
Vaccinia Virus was immunoprecipitated from 0.35 mg 293T transfected with a Virion membrane protein A21 expression vector containing a GFP tag whole cell lysate with ab312854 at 1/30 dilution (2ug in 0.35mg lysates). Western blot was performed on the immunoprecipitate using ab312854 at 1/1000 dilution. VeriBlot for IP secondary antibody(HRP)(ab131366) was used at 1/5000 dilution. Lane 1: 293T transfected with a Virion membrane protein A21 expression vector containing a GFP tag whole cell lysate Lane 2: 293T transfected with a Virion membrane protein A21 expression vector containing a GFP tag whole cell lysate Lane 3: Rabbit monoclonal IgG (ab172730) instead of ab312854 in 293T transfected with a Virion membrane protein A21 vector containing a GFP tag whole cell lysate Blocking and dilution buffer and concentration: 5% NFDM/TBST. Exposure time: 58 seconds
All lanes:
Immunoprecipitation - Anti-Vaccinia Virus antibody [EPR28236-80] (ab312854) at 1/30 dilution

All lanes:
293T transfected with a Virion membrane protein A21 expression vector containing a GFP tag whole cell lysate at 1 µg

Secondary

All lanes:
Immunoprecipitation - VeriBlot for IP Detection Reagent (HRP) (ab131366) at 1/5000 dilution

Exposure time: 58s



Western blot - Anti-Vaccinia Virus antibody [EPR28236-80] (ab312854)

Blocking and diluting buffer and concentration: 5% NFDM/TBST In Western blot, anti-GAPDH antibody (ab181602) loading control staining at 1/200000 dilution. Anti-GFP tag antibody (ab32146) staining at 1/1000 dilution. Exposure time: 10 seconds
All lanes:
Western blot - Anti-Vaccinia Virus antibody [EPR28236-80] (ab312854) at 1/1000 dilution

Lane 1:
293T cells transfected with an empty vector containi a GFP tag whole cell lysate at 20 µg

Lane 2:
293T transfected with a Virion membrane protein A21 expression vector containi a GFP tag whole cell lysate at 20 µg

Lane 3:
HeLa (human cervical adenocarcinoma epithelial cell) whole cell lysate at 20 µg

Lane 4:
NIH/3T3 (mouse embryonic fibroblast) whole cell lysate at 20 µg

Lane 5:
Human kidney tissue lysate at 20 µg

Lane 6:
Mouse kidney tissue lysate at 20 µg

Lane 7:
Rat kidney tissue lysate at 20 µg

Secondary

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

Observed band size: 46 kDa

Exposure time: 10s

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.