abcam

ab316207

Anti-Human respiratory syncytial virus A Nucleoprotein antibody [EPR28656-26]

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	EPR28656-26
Purification technique	Affinity purification Protein A
Concentration	0.53 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →

Reactivity data

WB

Tested

Species	Transfected cell lysate - Human respiratory syncytial virus A (strain A2)
Dilution info	1/1000
Notes	-

Predicted

Species	Human respiratory syncytial virus A (strain A2)
Dilution info	-
Notes	-

Not recommended

Species	Transfected cell line - Human respiratory syncytial virus A (strain A2), Recombinant fragment - Human respiratory syncytial virus A (strain A2)
Dilution info	-
Notes	-

IHC-P

Tested

Species	Transfected cell line - Human respiratory syncytial virus A (strain A2)
Dilution info	1/2000
Notes	Perform heat-mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

Predicted

Species	Human respiratory syncytial virus A (strain A2)
Dilution info	-
Notes	-

Not recommended

Species	Transfected cell lysate - Human respiratory syncytial virus A (strain A2), Recombinant fragment - Human respiratory syncytial virus A (strain A2)
Dilution info	-
Notes	-

ICC/IF

Tested

Species	Transfected cell line - Human respiratory syncytial virus A (strain A2)
Dilution info	1/4000
Notes	-

Predicted

Species	Human respiratory syncytial virus A (strain A2)
Dilution info	-
Notes	-

Not recommended

Species	Transfected cell lysate - Human respiratory syncytial virus A (strain A2), Recombinant fragment - Human respiratory syncytial virus A (strain A2)
Dilution info	-
Notes	-

Flow Cyt (Intra)

Tested

Species	Transfected cell line - Human respiratory syncytial virus A (strain A2)
Dilution info	1/5000
Notes	-

Predicted

Species	Human respiratory syncytial virus A (strain A2)
Dilution info	-
Notes	-

Not recommended

Species	Transfected cell lysate - Human respiratory syncytial virus A (strain A2), Recombinant fragment - Human respiratory syncytial virus A (strain A2)

Dilution info	-
Notes	-

I-ELISA

Tested

Species	Recombinant fragment - Human respiratory syncytial virus A (strain A2)
Dilution info	2000 ng/mL
Notes	-

Predicted

Species	Human respiratory syncytial virus A (strain A2)
Dilution info	-
Notes	-

Not recommended

Species	Transfected cell lysate - Human respiratory syncytial virus A (strain A2), Transfected cell line - Human respiratory syncytial virus A (strain A2)
Dilution info	-
Notes	-

Dot

Tested

Species	Recombinant fragment - Human respiratory syncytial virus A (strain A2)
Dilution info	1/1000
Notes	-

Predicted

Species	Human respiratory syncytial virus A (strain A2)
Dilution info	-

Notes	-

Not recommended

Species	Transfected cell lysate - Human respiratory syncytial virus A (strain A2), Transfected cell line - Human respiratory syncytial virus A (strain A2)
Dilution info	-
Notes	-

IP

Not recommended

Species	Transfected cell lysate - Human respiratory syncytial virus A (strain A2), Human respiratory syncytial virus A (strain A2), Transfected cell line - Human respiratory syncytial virus A (strain A2), Recombinant fragment - Human respiratory syncytial virus A (strain A2)
Dilution info	-
Notes	-

Target data

See full target information N

Function	Encapsidates the viral RNA genome by forming a left-handed helical nucleocapsid that protects the RNA from nucleases (PubMed:19965480, PubMed:23677789, PubMed:31229488). RNA replication depends on the availability of soluble nucleoprotein (PubMed:22623798, PubMed:9299631). The encapsidated genomic RNA is termed the NC and serves as template for transcription and replication (PubMed:22623798). Together with the phosphoprotein, sequesters host NF-kappa-B in inclusion bodies (IBs) thereby inhibiting this host defense pathway (PubMed:32878896). May also act as a modulator of the innate immune response by sequestration of host IFIH1/MDA5 and MAVS into IBs (PubMed:22623778).

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

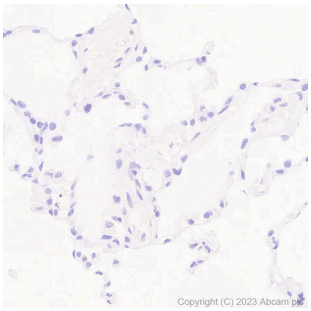
We do not recommend this combination. It is not covered by our product promise.

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.

8 product images



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Human respiratory syncytial virus A Nucleoprotein antibody [EPR28656-26] (ab316207)

Human respiratory syncytial virus A Nucleoprotein Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining of Human lung using rabbit Anti-Human respiratory syncytial virus A Nucleoprotein antibody

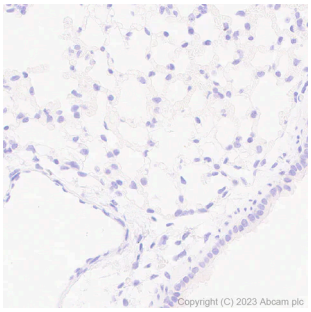
Immunohistochemical analysis of paraffin-embedded Human lung tissue labeling human respiratory syncytial virus A Nucleoprotein with ab316207 at 1/100 (5.3 ug/ml) dilution, followed by a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection).

Negative control: no staining on human lung. The section was incubated with ab316207 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-Human respiratory syncytial virus A Nucleoprotein antibody [EPR28656-26] (ab316207)

Human respiratory syncytial virus A Nucleoprotein Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining of Mouse lung using rabbit Anti-Human respiratory syncytial virus A Nucleoprotein antibody

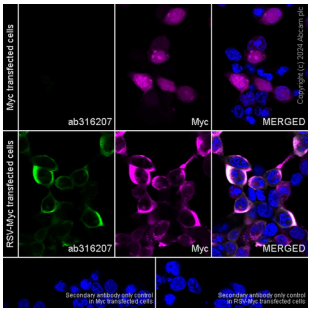
Immunohistochemical analysis of paraffin-embedded mouse lung tissue labeling Human respiratory syncytial virus A Nucleoprotein with ab316207 at 1/100 (5.3 ug/ml) dilution, followed by a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection).

Negative control: no staining on mouse lung. The section was incubated with ab316207 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).

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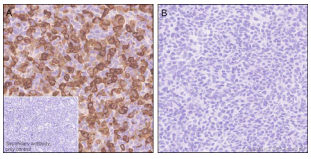
Immunocytochemistry/ Immunofluorescence - Anti-Human respiratory syncytial virus A Nucleoprotein antibody [EPR28656-26] (ab316207)

Immunofluorescent analysis of 4% Paraformaldehyde-fixed, 0.1% TritonX-100 permeabilized 293T (human embryonic kidney epithelial cell) cells labelling Human respiratory syncytial virus A Nucleoprotein with ab316207 at 1/4000 (0.133 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 Respiratory Syncytial Virus A Nucleoprotein expression vector containing a myc-His-tag®.
Image was taken with a confocal microscope(Leica-Microsystems, TCS SP8).

ab223894 Anti-Myc tag mouse monoclonal antibody (Alexa Fluor® 594) was used to counterstain at 1/100 (5ug/ml) dilution (Magenta). 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-Human respiratory syncytial virus A Nucleoprotein antibody [EPR28656-26] (ab316207)

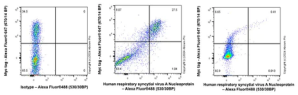
Immunohistochemical analysis of paraffin-embedded (A) HEK-293T (human embryonic kidney epithelial cell) transfected with a human Respiratory Syncytial Virus A Nucleoprotein expression vector containing a Myc-His tag® (B) HEK-293T transfected with empty vector containing a Myc-His tag® tissue labeling Human respiratory syncytial virus A Nucleoprotein with ab316207 at 1/2000 (0.265 ug/ml) dilution, followed by a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection).

Positive staining on (A) HEK-293T transfected with a human Respiratory Syncytial Virus A Nucleoprotein expression vector containing a Myc-His tag®. No staining on (B) HEK-293T transfected with empty vector containing a Myc-His tag®. The section was incubated with ab316207 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.

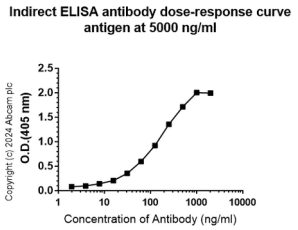


Flow Cytometry (Intracellular) - Anti-Human respiratory syncytial virus A Nucleoprotein antibody [EPR28656-26] (ab316207)

Flow cytometric analysis of 4% paraformaldehyde fixed 90% methanol permeabilized Cell line: Isotype (Left) / 293T cells (human embryonic kidney epithelial cell) transfected with a Respiratory Syncytial Virus A Nucleoprotein expression vector containing a myc-His-tag® (Middle) / 293T cells transfected with a empty expression vector containing a myc-His-tag® (Right) cells labelling Human respiratory syncytial virus A Nucleoprotein with ab316207 at 1/5000 dilution (0.01 ug)/Middle and Right compared with a Rabbit monoclonal IgG (ab172730) / Left isotype control and an unlabelled control (cells without incubation with primary antibody and secondary antibody) (Blue).

Goat Anti-Rabbit IgG (Alexa Fluor® 488, ab150081) at 1/5000 dilution was used as the secondary antibody.

Cells are co-stained with Myc tag conjugated to Alexa Fluor®647.

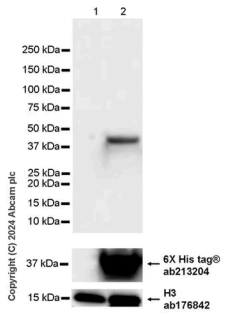


Indirect ELISA - Anti-Human respiratory syncytial virus A Nucleoprotein antibody [EPR28656-26] (ab316207)

Indirect ELISA analysis of ab316207 at 2000-0 ng/ml. The Secondary antibody used was Alkaline Phosphatase-conjugated AffiniPure Goat Anti-Rabbit IgG (H+L) at 1:2500 dilution.

Antigen: Human respiratory syncytial virus A Nucleoprotein.

Antigen concentration: 5000 ng/ml



Western blot - Anti-Human respiratory syncytial virus A Nucleoprotein antibody [EPR28656-26] (ab316207)

Human respiratory syncytial virus A Nucleoprotein Western blot staining using rabbit Anti-Human respiratory syncytial virus A Nucleoprotein antibody

In Western blot, Anti-Histone H3 antibody [EPR16987] - Nuclear Marker and ChIP Grade (ab176842) staining at 1/100000 dilution.

In Western blot, Anti-6X His tag antibody [EPR20547]-CHIP Grade (ab213204) staining at 1/5000 dilution.

All lanes:
Western blot - Anti-Human respiratory syncytial virus A Nucleoprotein antibody [EPR28656-26] (ab316207) at 1/1000 dilution

Lane 1:
293T cells transfected with an empty vector containing a His-tag, whole cell lysate at 20 µg

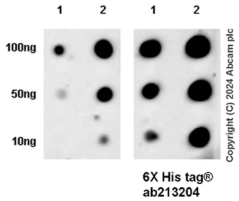
Lane 2:
293T cells transfected with a Human respiratory syncytial virus A Nucleoprotein expression vector containing a myc-His-tag®, whole cell lysate at 20 µg

Secondary

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

Observed band size: 43 kDa, 15 kDa

Exposure time: 10s



Dot Blot - Anti-Human respiratory syncytial virus A Nucleoprotein antibody [EPR28656-26] (ab316207)

Human respiratory syncytial virus A Nucleoprotein Dot Blot staining using rabbit Anti-Human respiratory syncytial virus A Nucleoprotein antibody

Dot blot analysis of Human respiratory syncytial virus A Nucleoprotein using ab316207 at 1:1000 (0.53 ug/ml) followed by a Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated (ab97051) at 1:100,000 dilution.

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

This antibody cross-react with human respiratory syncytial virus B (strain B1) Nucleoprotein.

All lanes:
Dot Blot - Anti-Human respiratory syncytial virus A Nucleoprotein antibody [EPR28656-26] (ab316207) at 1/1000 dilution

Lane 1:
His-tagged human respiratory syncytial virus A (strain A2) Nucleoprotein

Lane 2:
His-tagged human respiratory syncytial virus B (strain B1) Nucleoprotein

Secondary

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

Exposure time: 180s

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