abcam

ab319103

Anti-Streptavidin antibody [EPR28602-42]

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	EPR28602-42
Purification technique	Affinity purification Protein A
Concentration	0.538 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →

Reactivity data

WB

Tested

Species	Transfected cell lysate - Streptomyces avidinii
Dilution info	1/1000
Notes	-

Expected

Species	Recombinant full length protein - Streptomyces avidinii
Dilution info	Use at an assay dependent concentration.
Notes	-

Not recommended

Species	Transfected cell line - Streptomyces avidinii
Dilution info	-
Notes	-

IHC-P

Tested

Species	Transfected cell line - Streptomyces avidinii
Dilution info	1/100
Notes	-

Not recommended

Species	Transfected cell lysate - Streptomyces avidinii, Recombinant full length protein - Streptomyces avidinii
Dilution info	-
Notes	-

ICC/IF

Tested

Species	Transfected cell line - Streptomyces avidinii
Dilution info	1/4000
Notes	-

Not recommended

Species	Transfected cell lysate - Streptomyces avidinii, Recombinant full length protein - Streptomyces avidinii
Dilution info	-
Notes	-

Flow Cyt

Tested

Species	Transfected cell line - Streptomyces avidinii
Dilution info	1/500
Notes	-

Not recommended

Species	Transfected cell lysate - Streptomyces avidinii, Recombinant full length protein - Streptomyces avidinii
Dilution info	-
Notes	-

Flow Cyt (Intra)

Tested

Species	Transfected cell line - Streptomyces avidinii
Dilution info	1/5000
Notes	-

Not recommended

Species	Transfected cell lysate - Streptomyces avidinii, Recombinant full length protein - Streptomyces avidinii
Dilution info	-
Notes	-

I-ELISA

Tested

Species	Recombinant full length protein - Streptomyces avidinii
Dilution info	1000 ng/mL
Notes	-

Not recommended

Species	Transfected cell lysate - Streptomyces avidinii, Transfected cell line - Streptomyces avidinii
Dilution info	-
Notes	-

Target data

See full target information Streptavidin

Function	The biological function of streptavidin is not known. Forms a strong non-covalent specific complex with biotin (one molecule of biotin per subunit of streptavidin).

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

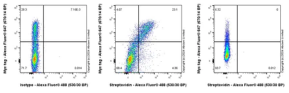
We do not recommend this combination. It is not covered by our product promise.

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



Flow Cytometry (Intracellular) - Anti-Streptavidin antibody [EPR28602-42] (ab319103)

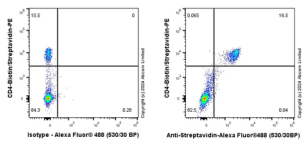
Streptavidin Flow Cytometry (Intracellular) staining using rabbit Anti-Streptavidin antibody

Flow cytometric analysis of 4% paraformaldehyde fixed 90% methanol permeabilized Isotype (Left) / 293T (human embryonic kidney epithelial cell) transfected with a Streptavidin expression vector containing a myc-His-tag® (Middle) / 293T transfected with an empty expression vector containing a myc-His-tag® (Right) cells labelling Streptavidin with ab319103 at 1/5000 dilution (0.1ug) / 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).

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

Cells were co-stained with anti myc tag conjugated to Alexa Fluor®647.

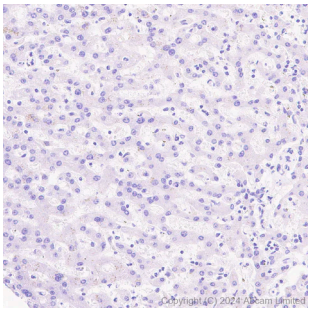


Flow Cytometry - Anti-Streptavidin antibody [EPR28602-42] (ab319103)

Flow cytometric analysis of Human PBMC (human peripheral blood mononuclear cell) cells labelling Streptavidin with ab319103 at 1/500 dilution (0.1ug) / Right compared with a Rabbit monoclonal IgG (ab172730) / Left isotype control and an unlabelled control (cells without incubation with primary antibody and secondary antibody).

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

Gated on viable cells.
Cells were co-stained with biotin-anti human CD4 and streptavidin conjugated to PE.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Streptavidin antibody [EPR28602-42] (ab319103)

Streptavidin Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining of Human liver using rabbit Anti-Streptavidin antibody

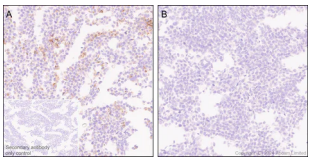
Immunohistochemical analysis of paraffin-embedded Human liver tissue labeling Streptavidin with ab319103 at 1/100 (5.04 ug/ml) dilution, followed by a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection).

Negative control: no staining on human liver.
The section was incubated with ab319103 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-Streptavidin antibody [EPR28602-42] (ab319103)

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

Immunohistochemical analysis of paraffin-embedded (A) HEK-293T (human embryonic kidney epithelial cell) transfected with a Streptavidin expression vector containing a his tag. (B) HEK-293T transfected with empty vector containing a his tag tissue labeling Streptavidin with ab319103 at

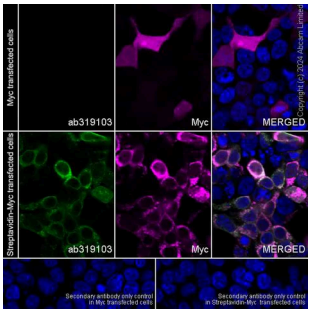
1/100 (5.04 ug/ml) dilution, followed by a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection).

Positive staining on (A) HEK-293T transfected with a Streptavidin expression vector containing a his tag. No staining on (B) HEK-293T transfected with empty vector containing a his tag.
The section was incubated with ab319103 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



Immunocytochemistry/ Immunofluorescence - Anti-Streptavidin antibody [EPR28602-42] (ab319103)

Streptavidin Immunocytochemistry/ Immunofluorescence staining using rabbit Anti-Streptavidin antibody

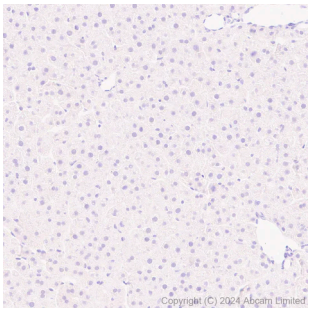
Immunofluorescent analysis of 4% Paraformaldehyde-fixed, 0.1% TritonX-100 permeabilized 293T (human embryonic kidney epithelial cell) cells labelling Streptavidin with ab319103 at 1/4000 (0.126 ug/ml) dilution, followed by ab150081 Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) preadsorbed antibody at 1/1000 dilution (Green).

Confocal image showing positive staining in 293T cells transfected with a Streptavidin expression vector containing a myc-His-tag®(shown in green). The counterstain was observed in magenta. Nuclear DNA was labeled with DAPI (shown in blue).
Image was taken with a confocal microscope (Leica-Microsystems, TCS SP8).

Myc-Tag Mouse mAb (Alexa Fluor® 647) was used to counterstain tubulin at 1/100 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 dilution.

Secondary antibody only control: Secondary antibody is ab150081 Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) preadsorbed at 1/1000 dilution.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Streptavidin antibody [EPR28602-42] (ab319103)

Streptavidin Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining of Rat liver using rabbit Anti-Streptavidin antibody

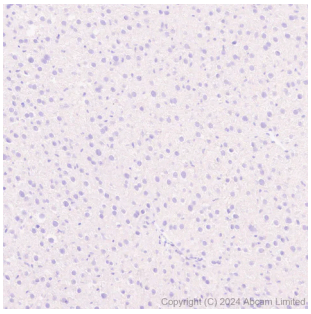
Immunohistochemical analysis of paraffin-embedded Rat liver tissue labeling Streptavidin with ab319103 at 1/100 (5.04 ug/ml) dilution, followed by a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection).

Negative control: no staining on rat liver.
The section was incubated with ab319103 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-Streptavidin antibody [EPR28602-42] (ab319103)

Streptavidin Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining of Mouse liver using rabbit Anti-Streptavidin antibody

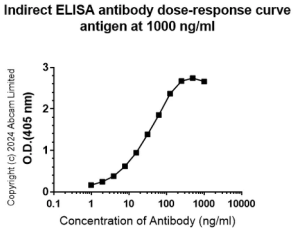
Immunohistochemical analysis of paraffin-embedded Mouse liver tissue labeling Streptavidin with ab319103 at 1/100 (5.04 ug/ml) dilution, followed by a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection).

Negative control: no staining on mouse liver.
The section was incubated with ab319103 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

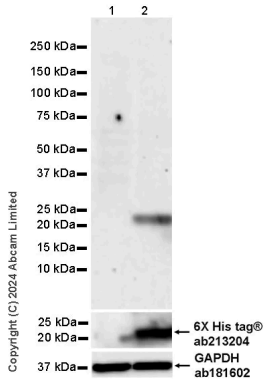


Indirect ELISA - Anti-Streptavidin antibody [EPR28602-42] (ab319103)

Indirect ELISA analysis of ab319103 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: Streptavidin.

Antigen concentration: 1000 ng/ml



Western blot - Anti-Streptavidin antibody [EPR28602-42] (ab319103)

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

In Western blot, Anti-GAPDH antibody [EPR16891] - Loading Control (ab181602) staining at 1/200000 dilution.

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

All lanes:
Western blot - Anti-Streptavidin antibody [EPR28602-42] (ab319103) at 1/1000 dilution

Lane 1:
293T (human embryonic kidney epithelial cell) transfected with an empty expression vector containing a myc-His-tag®, whole cell lysate at 20 µg

Lane 2:
293T transfected with a Streptavidin 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 1/20000 dilution

Observed band size: 21 kDa, 36 kDa

Exposure time: 180s

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