abcam

ab307676

Anti-Strep-tag II antibody [EPR28119-43]

Anti-Strep-tag II antibody [EPR28119-43] (ab307676) is a rabbit monoclonal antibody detecting Strep-tag II in **Western Blot, Flow Cytometry (Intra), IP, IHC-P, ICC/IF, ELISA**.

- Biophysical QC for unrivalled batch-batch consistency

Lab Essentials | 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	EPR28119-43
Purification technique	Affinity purification Protein A
Concentration	0.541 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →

Reactivity data

WB

Tested

Species	Tag
Dilution info	1/1000

Notes	-

IHC-P

Tested

Species	Tag
Dilution info	1/5000
Notes	Perform heat-mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

ICC/IF

Tested

Species	Tag
Dilution info	1/100
Notes	-

Flow Cyt (Intra)

Tested

Species	Tag
Dilution info	1/5000
Notes	-

IP

Tested

Species	Tag
Dilution info	1/30
Notes	-

ELISA

Expected

Species	Tag
Dilution info	0.125 µg/mL
Notes	-

Target data

See full target information Strep-tag II

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

What is this antibody validated in?
Anti-Strep-tag II antibody [EPR28119-43] (ab307676) is a rabbit recombinant monoclonal antibody and is validated for use in Western Blot (WB), Flow Cytometry (Intra), Immunoprecipitation (IP), Immunohistochemistry (IHC-P), Immunocytochemistry/immunofluorescence (ICC/IF), ELISA.

Tagged protein detection
Strep-tag II antibodies are used to visualize proteins labelled with this tag in a variety of applications.

Other related products
We have a range of other formats of antibody clone [EPR28119-43] also available for your convenience: ab307676, Carrier free - ab307677

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.

Trial sizes available!
Test your antibody or perform pre-screening before committing to a larger quantity. Sold in 20µl. Discover our selection of trial-size 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

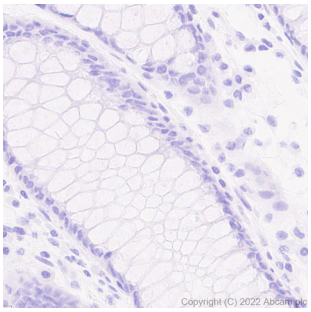
We do not recommend this combination. It is not covered by our product promise.

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.

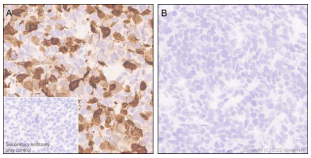
Full details and terms and conditions can be found here:
Terms & Conditions.

9 product images



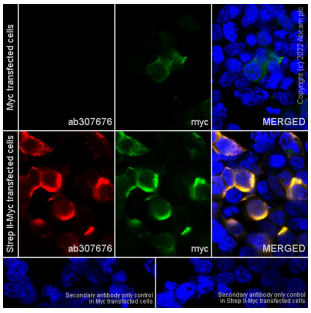
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Strep-tag II antibody [EPR28119-43] (ab307676)

Immunohistochemical analysis of paraffin-embedded Human colon tissue labeling Strep-tag II with ab307676 at 1/5000 (0.103 ug/ml) followed by a LeicaDS9800 (Bond™ Polymer Refine Detection) at Ready to use dilution. Negative control: No staining on human colon. The section was incubated with ab307676 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 LeicaDS9800 (Bond™ Polymer Refine Detection) at Ready to use dilution. Heat mediated antigen retrieval was performed with Tris-EDTA buffer (pH 9.0, Epitope Retrieval Solution2) for 20 mins



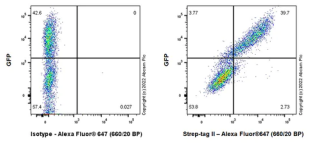
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Strep-tag II antibody [EPR28119-43] (ab307676)

Immunohistochemical analysis of paraffin-embedded (A) HEK-293T (human tissue labeling Strep-tag II with ab307676 at 1/5000 (0.103 ug/ml) followed by a LeicaDS9800 (Bond™ Polymer Refine Detection) at Ready to use dilution. Positive staining on (A) HEK-293T cells transfected with a gfp-strep II (WSHPQFEK) expression vector containing a myc-tag. No staining on (B) HEK-293T cells transfected with empty vector containing a myc-tag. The section was incubated with ab307676 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 LeicaDS9800 (Bond™ Polymer Refine Detection) at Ready to use dilution. Heat mediated antigen retrieval was performed with Tris-EDTA buffer (pH 9.0, Epitope Retrieval Solution2) for 20 mins



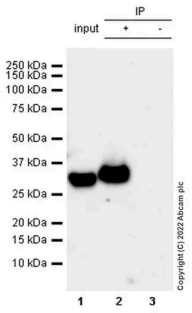
Immunocytochemistry/ Immunofluorescence - Anti-Strep-tag II antibody [EPR28119-43] (ab307676)

Immunofluorescent analysis of 4% Paraformaldehyde-fixed, 0.1% TritonX-100 permeabilized HEK-293T (human embryonic kidney epithelial cell) cells labelling Strep-tag II with ab307676 at 1/100 (5.14 ug/ml) dilution, followed by ab150088 Goat Anti-Rabbit IgG H&L (Alexa Fluor® 594) preabsorbed (ab150088) antibody at 1/1000 2 ug/ml dilution (Green). Confocal image showing positive staining in HEK-293T cells transfected with a Strep-tag II expression vector containing a myc-tag. The image was taken with a confocal microscope (Leica-Microsystems, TCS SP8). is observed. Myc-Tag Mouse mAb (Alexa Fluor® 647) was used to counterstain tubulin at 1/100 0.38ug/ml dilution (Red). The Nuclear counterstain was DAPI (Blue). Secondary antibody only control: Secondary antibody is ab150088 Goat Anti-Rabbit IgG H&L (Alexa Fluor® 594) preabsorbed (ab150088) at 1/1000 2 ug/ml dilution.



Flow Cytometry (Intracellular) - Anti-Strep-tag II antibody [EPR28119-43] (ab307676)

Flow cytometric analysis of 4% paraformaldehyde fixed 90% methanol permeabilized HEK-293T (human embryonic kidney) cells transfected with a Strep-tag II expression vector containing a GFP tag cells labelling Strep-tag II with ab307676 at 1/5000 dilution (0.01ug)/ Right (Red) compared with a Rabbit monoclonal IgG (ab172730) / Left isotype control and an unlabeled control (cells without incubation with primary antibody and secondary antibody) (Blue). A Goat anti-Rabbit IgG (Alexa Fluor® 647, ab150083) at 1/2000 dilution was used as the secondary antibody.



Immunoprecipitation - Anti-Strep-tag II antibody [EPR28119-43] (ab307676)

Strep-tag II was immunoprecipitated from 0.35 mg 293T (human embryonic kidney epithelial cell) cells transfected with a Strep-tag II expression vector containing a GFP tag whole cell lysate 10 ug with ab307676 at 1/30 dilution (2ug in 0.35mg lysates). Western blot was performed on the immunoprecipitate using ab307676 at 1/1000 dilution. VeriBlot for IP secondary antibody (HRP) (ab131366) was used at 1/5000 dilution.
Lane 1: 293T (human embryonic kidney epithelial cell) cells transfected with a Strep-tag II expression vector containing a GFP tag whole cell lysate 10 ug
Lane 2: ab307676 IP in 293T cells transfected with a Strep-tag II expression vector containing a GFP tag whole cell lysate
Lane 3: Rabbit monoclonal IgG (ab172730) instead of ab307676 in 293Tcells transfected with a Strep-tag II expression vector containing a GFP tag whole cell lysate

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

Exposure time: 3 seconds

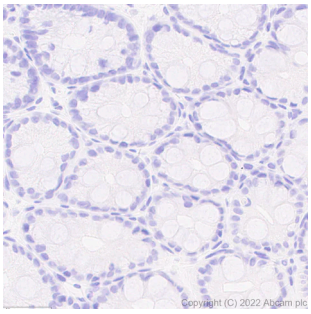
All lanes:
Immunoprecipitation - Anti-Strep-tag II antibody [EPR28119-43] (ab307676) at 1/1000 dilution

Secondary

All lanes:
Immunoprecipitation at 1/5000 dilution

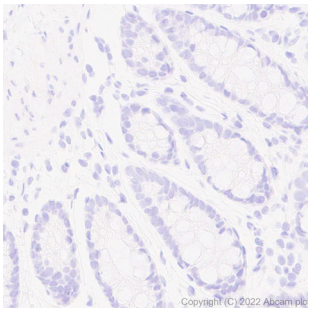
Observed band size: 30 kDa

Exposure time: 3s



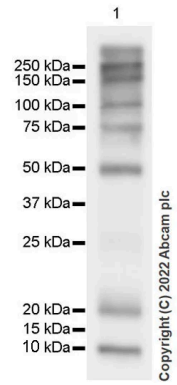
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Strep-tag II antibody [EPR28119-43] (ab307676)

Immunohistochemical analysis of paraffin-embedded Mouse colon tissue labeling Strep-tag II with ab307676 at 1/5000 (0.103 ug/ml) followed by a LeicaDS9800 (Bond™ Polymer Refine Detection) at Ready to use dilution. Negative control: No staining on mouse colon. The section was incubated with ab307676 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 LeicaDS9800 (Bond™ Polymer Refine Detection) at Ready to use dilution. 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-Strep-tag II antibody [EPR28119-43] (ab307676)

Immunohistochemical analysis of paraffin-embedded Rat colon tissue labeling Strep-tag II with ab307676 at 1/5000 (0.103 ug/ml) followed by a LeicaDS9800 (Bond™ Polymer Refine Detection) at Ready to use dilution. Negative control: No staining on rat colon. The section was incubated with ab307676 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 LeicaDS9800 (Bond™ Polymer Refine Detection) at Ready to use dilution. Heat mediated antigen retrieval was performed with Tris-EDTA buffer (pH 9.0, Epitope Retrieval Solution2) for 20 mins



Western blot - Anti-Strep-tag II antibody [EPR28119-43] (ab307676)

Strep-tag II Western blot staining of Strep-tagged standard marker (mixture of Strep-tagged recombinant proteins,10-250 kDa) using rabbit Anti-Strep-tag II antibody

Buffer and diluting concentration: 5% NFDM/TBST.
Primary dilution of 1/1000 and a secondary dilution, Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated (ab97051), of 1/100,000.

All lanes:
Western blot - Anti-Strep-tag II antibody [EPR28119-43] (ab307676) at 1/1000 dilution

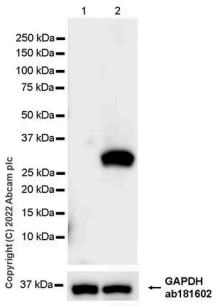
All lanes:
Strep-tagged standard marker (mixture of Strep-tagged recombinant proteins,10-250 kDa)

Secondary

All lanes:
Western blot at 1/100000 dilution

Observed band size: 10 kDa, 15 kDa, 20 kDa, 25 kDa, 37 kDa, 50 kDa, 75 kDa, 100 kDa, 150 kDa, 250 kDa

Exposure time: 1s



Western blot - Anti-Strep-tag II antibody [EPR28119-43] (ab307676)

Strep-tag II Western blot staining using rabbit Anti-Strep-tag II antibody

Buffer and diluting concentration: 5% NFDM/TBST.
In Western blot, anti-GAPDH antibody (ab181602) loading control staining at 1/200000 dilution.

All lanes:
Western blot - Anti-Strep-tag II antibody [EPR28119-43] (ab307676) at 1/1000 dilution

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

Lane 2:
293T cells transfected with a human Strep-tag II expression vector containing a GFP tag whole cell lysate at 20 µg

Secondary

All lanes:
Western blot at 1/100000 dilution

Observed band size: 30 kDa

Exposure time: 3s

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