abcam

ab314656

Anti-GFP antibody [EPR28018-38]

Rabbit Recombinant Monoclonal GFP antibody. Suitable for Flow Cyt (Intra), IHC-P, ICC/IF, WB, IP.

See more GFP antibodies and assay kits

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	EPR28018-38
Purification technique	Affinity purification Protein A
Concentration	0.513 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →

Reactivity data

Flow Cyt (Intra)

Tested

Species	Tag
Dilution info	1/500

Notes	-

IHC-P

Tested

Species	Tag
Dilution info	1/4000
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	1/50
Notes	-

WB

Tested

Species	Tag
Dilution info	1/1000
Notes	-

IP

Tested

Species	Tag
Dilution info	1/30
Notes	-

Target data

See full target information GFP

Function	Energy-transfer acceptor. Its role is to transduce the blue chemiluminescence of the protein aequorin into green fluorescent light by energy transfer. Fluoresces in vivo upon receiving energy from the Ca(2+)-activated photoprotein aequorin.

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.

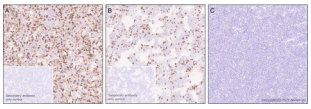
We are dedicated to supporting your work with high quality reagents and we are here for you every step of the way should you need us.

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.

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9 product images



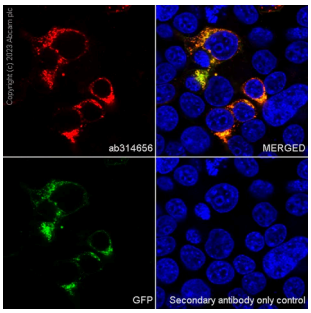
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-GFP antibody [EPR28018-38] (ab314656)

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

Immunohistochemical analysis of paraffin-embedded (A) 293T (human embryonic kidney epithelial cell) transfected with an empty vector containing a GFP-tag (B) 293T transfected with an empty vector containing an EGFP-myc-tag (C) 293T transfected with an empty vector containing a myc-His-tag® tissue labeling GFP with ab314656 at 1/4000 (0.127 ug/ml) followed by a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection). Positive staining on 293T transfected with an empty vector containing a GFP-tag cell pellets (A) and 293T transfected with an empty vector containing an EGFP-myc-tag cell pellets (B). No staining on 293T transfected with an empty vector containing a myc-His-tag cell pellets (C). The section was incubated with ab314656 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.



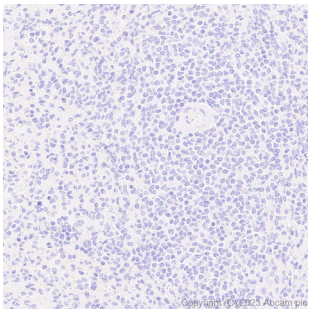
Immunocytochemistry/ Immunofluorescence - Anti-GFP antibody [EPR28018-38] (ab314656)

GFP Immunocytochemistry/ Immunofluorescence staining of 293T (human embryonic kidney epithelial cell) transfected with a empty expression vector containing a GFP tag. using rabbit Anti-GFP antibody

Immunofluorescent analysis of 4% Paraformaldehyde-fixed 0.1% TritonX-100 permeabilized 293T (human embryonic kidney epithelial cell) cells labelling GFP with ab314656 at 1/50 (10.18 ug/ml) dilution followed by ab150088 Goat Anti-Rabbit IgG H&L (Alexa Fluor® 594) preadsorbed

(ab150088) antibody at 1/1000 (2 ug/mL) dilution (Green). Confocal image showing positive staining in 293T cells transfected with a empty 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 ab150088 Goat Anti-Rabbit IgG H&L (Alexa Fluor® 594) preadsorbed (ab150088) at 1/1000 (2 ug/mL) dilution.



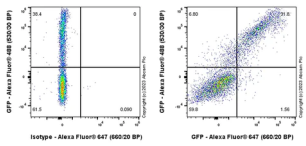
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-GFP antibody [EPR28018-38] (ab314656)

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

Immunohistochemical analysis of paraffin-embedded Human spleen tissue labeling GFP with ab314656 at 1/4000 (0.127 ug/ml) followed by a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection). Negative control: No staining on human spleen. The section was incubated with ab314656 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).

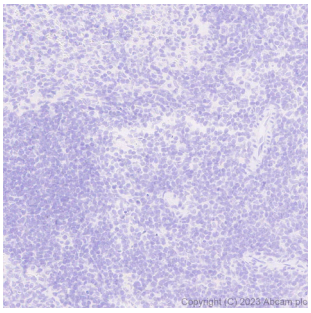
Heat mediated antigen retrieval was performed with Tris-EDTA buffer (pH 9.0, Epitope Retrieval Solution2) for 20 mins.



Flow Cytometry (Intracellular) - Anti-GFP antibody [EPR28018-38] (ab314656)

GFP Flow Cytometry (Intracellular) staining of 293T cells transfected with a EGFP expression vector containing a EGFP tag (Right) using rabbit Anti-GFP antibody

Flow cytometric analysis of 4% paraformaldehyde fixed 90% methanol permeabilized Isotype (Left) / 293T cells transfected with a EGFP expression vector containing a EGFP tag (Right) cells labelling GFP with ab314656 at 1/500 dilution (0.1 ug)/Right (Red) compared with a Rabbit monoclonal isotype control - Alexa Fluor® 647 / 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.



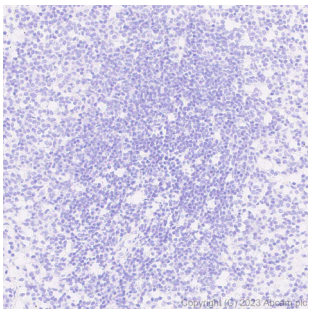
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-GFP antibody [EPR28018-38] (ab314656)

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

Immunohistochemical analysis of paraffin-embedded Rat spleen tissue labeling GFP with ab314656 at 1/4000 (0.127 ug/ml) followed by a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection). Negative control: No staining on rat spleen. The section was incubated with ab314656 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.



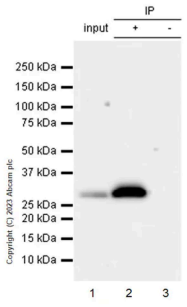
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-GFP antibody [EPR28018-38] (ab314656)

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

Immunohistochemical analysis of paraffin-embedded Mouse spleen tissue labeling GFP with ab314656 at 1/4000 (0.127 ug/ml) followed by a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection). Negative control: No staining on mouse spleen. The section was incubated with ab314656 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.



Immunoprecipitation - Anti-GFP antibody [EPR28018-38] (ab314656)

GFP was immunoprecipitated from 0.35 mg 293T (human embryonic kidney epithelial cell) transfected with an empty vector containing a GFP-tag, whole cell lysate with ab314656 at 1/30 dilution (2ug in 0.35mg lysates). Western blot was performed on the immunoprecipitate using ab314656 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) transfected with an empty vector containing a GFP-tag, whole cell lysate

Lane 2: ab314656 IP in 293T (human embryonic kidney epithelial cell) transfected with an empty vector containing a GFP-tag, whole cell lysate

Lane 3: Rabbit monoclonal IgG (ab172730) instead of ab314656 in 293T transfected with an empty vector containing a GFP-tag, whole cell lysate

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

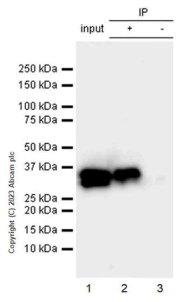
All lanes:
Immunoprecipitation - Anti-GFP antibody [EPR28018-38] (ab314656) at 1/30 dilution

All lanes:
293T (human embryonic kidney epithelial cell) transfected with an empty vector containing a GFP-tag, whole cell lysate

Secondary

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

Exposure time: 8s



Immunoprecipitation - Anti-GFP antibody [EPR28018-38] (ab314656)

GFP was immunoprecipitated from 0.35 mg 293T (human embryonic kidney epithelial cell) transfected with an empty vector containing an EGFP-myc-tag, whole cell lysate with ab314656 at 1/30 dilution (2ug in 0.35mg lysates). Western blot was performed on the immunoprecipitate using ab314656 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) transfected with an empty vector containing an EGFP-myc-tag, whole cell lysate

Lane 2: ab314656 IP in 293T (human embryonic kidney epithelial cell) transfected with an empty vector containing an EGFP-myc-tag, whole cell lysate

Lane 3: Rabbit monoclonal IgG (ab172730) instead of ab314656 in 293T transfected with an empty vector containing an EGFP-myc-tag, whole cell lysate

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

All lanes:
Immunoprecipitation - Anti-GFP antibody [EPR28018-38] (ab314656) at 1/30 dilution

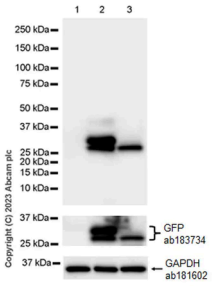
All lanes:
293T (human embryonic kidney epithelial cell) transfected with an empty vector containing an EGFP-myc-tag, whole cell lysate

Secondary

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

Observed band size: 26 kDa

Exposure time: 6s



Western blot - Anti-GFP antibody [EPR28018-38] (ab314656)

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-GFP antibody [EPR14104] (ab183734) staining at 1/5000 dilution.

All lanes:
Western blot - Anti-GFP antibody [EPR28018-38] (ab314656) at 1/1000 dilution

Lane 1:
293T (human embryonic kidney epithelial cell) transfected with an empty vector containing a myc-His-tag®, whole cell lysate at 7 µg

Lane 2:
293T transfected with an empty vector containing an EGFP-myc-tag, whole cell lysate at 7 µg

Lane 3:
293T transfected with an empty vector containing a GFP-tag, whole cell lysate at 7 µg

Secondary

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

Observed band size: 26 kDa, 36 kDa

Exposure time: 3s

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