

Anti-GFP antibody [RM1064]

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

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	Multiclonal
Immunogens	The exact immunogen used to generate this antibody is proprietary information.
Clone number	RM1064
Purification technique	Affinity purification Protein A
Concentration	0.5 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →

Reactivity data

WB

Tested

Species	Tag
Dilution info	1/5000

Notes	-
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IHC-P

Tested

Species	Tag
Dilution info	1/5000
Notes	Perform heat-mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.

ICC/IF

Tested

Species	Tag
Dilution info	1/500
Notes	-

Flow Cyt (Intra)

Tested

Species	Tag
Dilution info	1/5000
Notes	-

IP

Tested

Species	Tag
Dilution info	1/30
Notes	-

ChIP

Tested

Species	Tag
Dilution info	5 µg for 25 µg chromatin
Notes	-

I-ELISA

Tested

Species	Tag
Dilution info	1000 ng/mL
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.
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Storage

Shipped at conditions	Blue Ice
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 are recombinant multiclonsals?

Recombinant multiclonsals are a mixture of recombinant antibodies co-expressed from a library of heavy and light chains. They offer several advantages including:

- The sensitivity of polyclonal antibodies by recognising multiple epitopes
- High batch-to-batch consistency and reproducibility
- Improved sensitivity and specificity
- Long-term security of supply
- Animal-free batch production

View our range of recombinant monoclonal antibodies.

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.

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

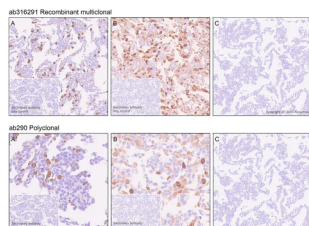
We do not recommend this combination. It is not covered by our product promise.

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.

10 product images



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-GFP antibody [RM1064] (ab316291)

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 ab316291 at 1/5000 (0.11 ug/ml) dilution, 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 upon images are applied with Anti-GFP antibody (ab316291) at 1/5000 dilution and the below images are applied with Anti-GFP antibody (ab290) at 1/5000 dilution.

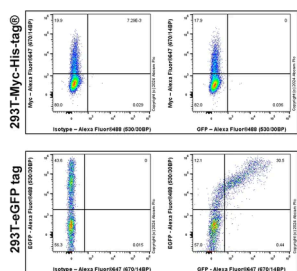
The section was incubated with ab316291 or ab290 for 30 mins at room temperature.

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 Citrate buffer (pH 6.0, Epitope Retrieval Solution 1) for 20 mins



Flow Cytometry (Intracellular) - Anti-GFP antibody [RM1064] (ab316291)

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

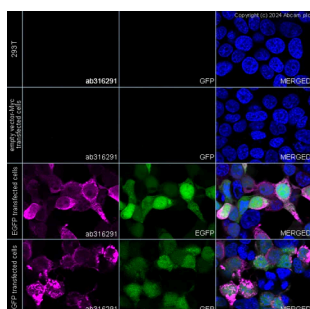
Flow cytometric analysis of 4% paraformaldehyde fixed 90% methanol permeabilized 293T (human embryonic kidney epithelial cell) cells transfected with an empty expression vector containing a myc-His-tag[®] (upper left and upper right) /293T cells transfected with an GFP expression vector containing an eGFP tag (bottom left and bottom Right) cells labelling GFP with ab316291 at 1/5000 dilution (0.01 ug) compared with a Rabbit monoclonal IgG (ab172730) / Left isotype control.

293T cells transfected with an empty expression vector containing a myc-His-tag[®] were labeled with anti-Myc antibody crosslinked with Alexa Fluor[®]647 (670/14BP).And use Goat Anti-Rabbit IgG (Alexa Fluor[®] 488, ab150081) combined with ab316291.

Isotype are Rabbit monoclonal IgG (ab172730).

293T cells transfected with an GFP expression vector containing an eGFP tag are use Goat Anti-Rabbit IgG (Alexa Fluor[®] 647, ab150083) combined with ab316291.

Isotype are Rabbit monoclonal IgG (ab172730).



Immunocytochemistry/ Immunofluorescence - Anti-GFP antibody [RM1064] (ab316291)

GFP Immunocytochemistry/ Immunofluorescence staining using rabbit Anti-GFP antibody

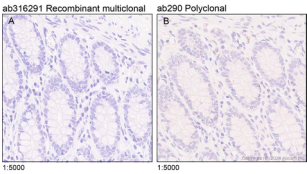
Immunofluorescent analysis of 4% Paraformaldehyde-fixed, 0.1% TritonX-100 permeabilized 293T (human embryonic kidney epithelial cell) transfected with empty vector containing a EGFP tag. cells labelling GFP with ab316291 at 1/500 (1.096 ug/ml) dilution, followed by ab150080 Goat Anti-Rabbit IgG H&L (Alexa Fluor[®] 594) antibody at 1/1000 (2 ug/ml) dilution (Green).

Confocal image showing positive staining in 293T cells transfected with empty vector containing a EGFP tag and 293T cells transfected an GFP expression vector (shown in magenta), and no staining in 293T cells transfected with empty vector containing a myc tag and 293T cells. EGFP and GFP was observed in green. Nuclear DNA was labeled with DAPI (shown in blue).

Image was taken with a confocal microscope(Leica-Microsystems, TCS SP8).

The Nuclear counterstain was DAPI (Blue).

Secondary antibody only control: Secondary antibody is [ab150080](#) Goat Anti-Rabbit IgG H&L (Alexa Fluor® 594) at 1/1000 (2 ug/ml) dilution.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-GFP antibody [RM1064] (ab316291)

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

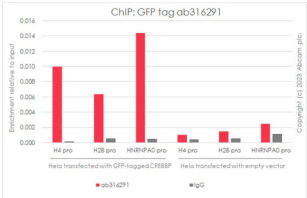
Immunohistochemical analysis of paraffin-embedded Human colon tissue labeling GFP with ab316291 at 1/5000 (0.11 ug/ml) dilution, followed by a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection).

Negative control: no staining on human colon in ab316291 (Image A) and weak background staining on the human colon in [ab290](#) (Image B).
The image A is applied with Anti-GFP antibody (ab316291) at 1/5000 dilution and the image B is applied with Anti-GFP antibody ([ab290](#)) at 1/5000 dilution.
The section was incubated with ab316291 or [ab290](#) for 30 mins at room temperature.
The immunostaining was performed on a Leica Biosystems BOND® RX instrument

Counterstained with Hematoxylin.

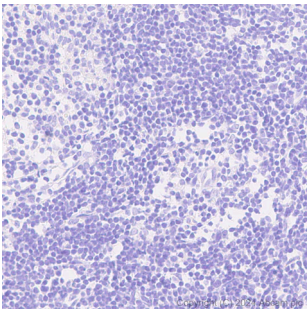
Secondary antibody only control: Secondary antibody is a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection).

Heat mediated antigen retrieval was performed with Citrate buffer (pH 6.0, Epitope Retrieval Solution 1) for 20 mins



ChIP - Anti-GFP antibody [RM1064] (ab316291)

Chromatin was prepared from Hela (human epithelial cell line from cervix adenocarcinoma) transfected with GFP Tagged human CREBBP and Hela transfected with empty vector cells according to the Abcam Dual-X-ChIP protocol. Cells were fixed with 1.5 mM EGS for 30mins and then formaldehyde for 10min.
The ChIP was performed with 25 µg of chromatin, 5 µg of ab316291 (red), or 5 µg of rabbit normal IgG [ab172730](#) (gray) and 25 µl of Protein A/G Dynabeads. The immunoprecipitated DNA was quantified by real time PCR (SYBR green approach).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-GFP antibody [RM1064] (ab316291)

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

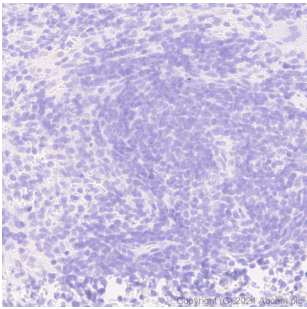
Immunohistochemical analysis of paraffin-embedded Mouse spleen tissue labeling GFP with ab316291 at 1/5000 (0.11 ug/ml) dilution, followed by a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection).

Negative control: No staining on mouse spleen.
The section was incubated with ab316291 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 Citrate buffer (pH 6.0, Epitope Retrieval Solution 1) for 20 mins



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-GFP antibody [RM1064] (ab316291)

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

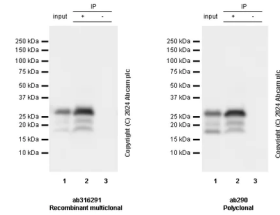
Immunohistochemical analysis of paraffin-embedded Rat spleen tissue labeling GFP with ab316291 at 1/5000 (0.11 ug/ml) dilution, followed by a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection).

Negative control: No staining on rat spleen.
The section was incubated with ab316291 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 Citrate buffer (pH 6.0, Epitope Retrieval Solution 1) for 20 mins



Immunoprecipitation - Anti-GFP antibody [RM1064] (ab316291)

GFP was immunoprecipitated from 0.35 mg HEK-293T (human embryonic kidney epithelial cell) transfected with a GFP protein expression vector, whole cell lysate with ab316291 at 1/30 dilution (2ug in 0.35mg lysates). Western blot was performed on the immunoprecipitate using ab316291 at 1/1000 dilution. VeriBlot for IP secondary antibody(HRP)(ab131366) was used at 1/5000 dilution.

Lane 1: HEK-293T (human embryonic kidney epithelial cell) transfected with a GFP protein expression vector, whole cell lysate
Lane 2: ab316291 IP in HEK-293T (human embryonic kidney epithelial cell) transfected with a GFP protein expression vector, whole cell lysate
Lane 3: Rabbit monoclonal IgG (ab172730) instead of primary antibody in HEK-293T (human embryonic kidney epithelial cell) transfected with a GFP protein expression vector, whole cell lysate.

The left panel is applied with Anti-GFP antibody (ab316291) at 1/1000 dilution and the right panel is applied with Anti-GFP antibody (ab290) at 1/1000 dilution.

All lanes:
Immunoprecipitation - Anti-GFP antibody [RM1064] (ab316291) at 1/30 dilution

All lanes:
HEK-293T (human embryonic kidney epithelial cell) transfected with a GFP protein expression vector, whole cell lysate

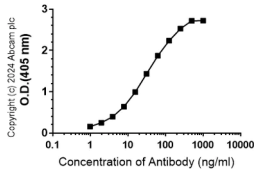
Secondary

All lanes:

Immunoprecipitation - VeriBlot for IP Detection Reagent (HRP) ([ab131366](#)) at 1/5000 dilution

Exposure time: 1s

Indirect ELISA antibody dose-response curve
antigen at 1000 ng/ml

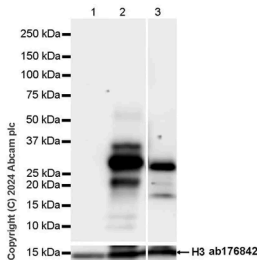


Indirect ELISA - Anti-GFP antibody [RM1064] ([ab316291](#))

Indirect ELISA analysis of [ab316291](#) 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: GFP.

Antigen concentration: 1000 ng/ml



Western blot - Anti-GFP antibody [RM1064] ([ab316291](#))

GFP Western blot staining using rabbit Anti-GFP antibody

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

Exposure time: Lanes 1-2: 8 seconds; Lane 3: 37 seconds

All lanes:

Western blot - Anti-GFP antibody [RM1064] ([ab316291](#)) at 1/5000 dilution

Lane 1:

293T (human embryonic kidney epithelial cell) transfected with an empty vector containing a myc-His-tag®, whole cell lysate at 10 µg

Lane 2:

293T transfected with an empty vector containing an EGFP-myc-tag, whole cell lysate at 10 µg

Lane 3:

293T transfected with an empty vector containing a GFP-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: 27 kDa, 15 kDa

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