abcam

ab300643

Anti-GFP antibody [EPR14104] - Chicken IgY (Chimeric)

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

See more GFP antibodies and assay kits

This antibody is the chimeric Chicken version of clone EPR14104, available in rabbit as ab183734 with over 100 publications. Same clone, same staining pattern, different species antibody backbone.
Learn more about chimeric antibodies

Lab Essentials | Recombinant | 20ul selling size

Key facts

Isotype	IgY
Host species	Chicken
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	EPR14104
Purification technique	Affinity purification Thiophilic Resin
Specificity	This product does not recognize RFP.
Concentration	1.004 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →

Reactivity data

WB

Tested

Species	Transfected cell lysate - Human
Dilution info	1/1000
Notes	-

Species	Tag
Dilution info	1/1000
Notes	-

IHC-P

Tested

Species	Tag
Dilution info	1/10000
Notes	Perform heat-mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.

Not recommended

Species	Transfected cell lysate - Human
Dilution info	-
Notes	-

ICC/IF

Tested

Species	Tag
Dilution info	1/50
Notes	-

Not recommended

Species	Transfected cell lysate - Human
Dilution info	-
Notes	-

Flow Cyt (Intra)

Tested

Species	Tag
Dilution info	1/500
Notes	-

Not recommended

Species	Transfected cell lysate - Human
Dilution info	-
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	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

This chicken monoclonal chimeric antibody has been engineered from a RabMAb parent antibody (ab183734). By necessity, some rabbit sequence is retained as part of the variable domain. When multiplexing with other rabbit-derived antibodies, using cross absorbed FC-reactive secondary antibodies are recommended.

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

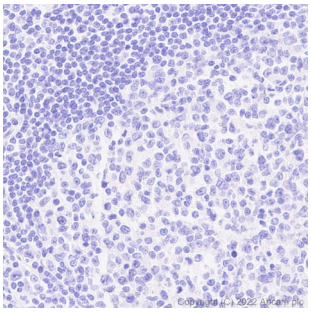
We do not recommend this combination. It is not covered by our product promise.

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.

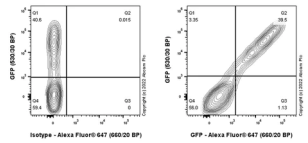
Full details and terms and conditions can be found here:
Terms & Conditions.

9 product images



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-GFP antibody [EPR14104] - Chicken IgY (Chimeric) (ab300643)

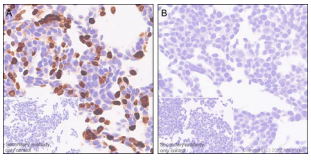
Immunohistochemical analysis of paraffin-embedded human tonsil labeling GFP with ab300643 at 1/10000 dilution (0.996 µg/ml) followed by ready to use Leica DS9800 (BOND™ Polymer Refine Detection) kit. No staining on human tonsil. The section was incubated with ab300643 for 30 mins at room temperature followed by anti-chicken IgG antibody (ab97136) for 8 mins during the Leica DS9800 kit staining procedure. 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 with Citrate buffer (pH 6.0, epitope retrieval solution 1) for 20 mins.



Flow Cytometry (Intracellular) - Anti-GFP antibody [EPR14104] - Chicken IgY (Chimeric) (ab300643)

GFP Flow Cytometry (Intracellular) staining of 293T transfected with GFP tagged Firefly Luciferase over expression vector using chicken Anti-GFP antibody

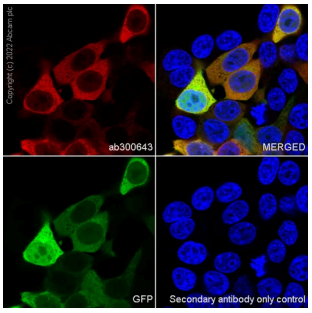
Flow Cytometry (Intracellular) analysis of 293T transfected with GFP tagged Firefly Luciferase over expression vector labeling GFP (right) with ab300643 at a 1/500 dilution. Cells were fixed with 4% paraformaldehyde and permeabilized with 90% methanol. A Goat anti-Chicken IgY H&L (Alexa Fluor® 647, ab150175) was used as the secondary antibody at a 1/5000 dilution. Chicken IgY Isotype control. (left)



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-GFP antibody [EPR14104] - Chicken IgY (Chimeric) (ab300643)

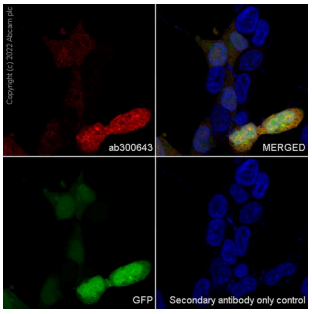
GFP Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using chicken Anti-GFP antibody

Immunohistochemical analysis of paraffin-embedded (A) HEK-293T transfected with GFP expression vector containing a his tag. (B) Wild type HEK-293T cells labeling GFP with ab300643 at 1/10000 dilution (0.996 µg/ml) followed by ready to use Leica DS9800 (BOND™ Polymer Refine Detection) kit. Positive staining on HEK-293T transfected with GFP expression vector containing a his tag (Image: A); No staining on Wild type HEK-293T cells (Image: B). The section was incubated with ab300643 for 30 mins at room temperature followed by anti-chicken IgG antibody (ab97136) for 8 mins during the LeicaDS9800 kit staining procedure. The immunostaining was performed on a Leica Biosystems BOND® RX instrument. Counterstained with Hematoxylin. Secondary antibody only control: Secondary antibody is ready to use LeicaDS9800 (BOND™ Polymer Refine Detection). Heat mediated antigen retrieval with Citrate buffer (pH 6.0, epitope retrieval solution 1) for 20 mins.



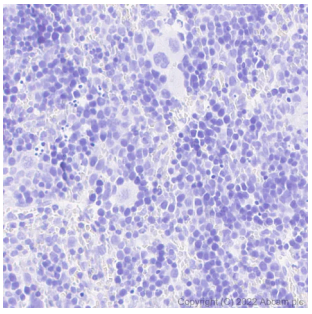
Immunocytochemistry/ Immunofluorescence - Anti-GFP antibody [EPR14104] - Chicken IgY (Chimeric) (ab300643)

Immunofluorescent analysis of 4% Paraformaldehyde fixed, 0.1% Triton X-100 permeabilized HEK293T (human embryonic kidney epithelial cells) labeling GFP with ab300643 at 1/50 dilution followed by ab150175 Goat Anti-Chicken IgY H&L (Alexa Fluor® 647) preadsorbed secondary antibody at 1/1000 (2 µg/ml) dilution (red). Confocal image showing positive staining in HEK-293T cells transfected with a Firefly Luciferase expression vector containing a GFP tag. The nuclear counter stain is DAPI (blue).



Immunocytochemistry/ Immunofluorescence - Anti-GFP antibody [EPR14104] - Chicken IgY (Chimeric) (ab300643)

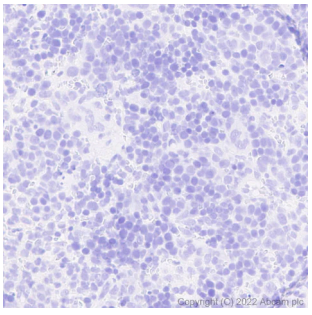
Immunofluorescent analysis of 4% Paraformaldehyde fixed, 0.1% Triton X-100 permeabilized 293/GFP (human embryonic kidney epithelial cell) cells labeling GFP with ab300643 at 1/50 dilution followed by ab150175 Goat Anti-Chicken IgY H&L (Alexa Fluor® 647) preadsorbed secondary antibody at 1/1000 (2 µg/ml) dilution (red). Confocal image showing positive staining in 293/GFP cells. The nuclear counter stain is DAPI (blue).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-GFP antibody [EPR14104] - Chicken IgY (Chimeric) (ab300643)

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

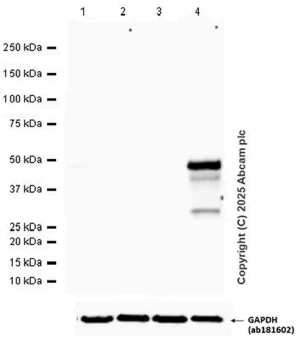
Immunohistochemical analysis of paraffin-embedded mouse spleen labeling GFP with ab300643 at 1/10000 dilution (0.996 µg/ml) followed by ready to use Leica DS9800 (BOND™ Polymer Refine Detection) kit. No staining on mouse spleen. The section was incubated with ab300643 for 30 mins at room temperature followed by anti-chicken IgG antibody (ab97136) for 8 mins during the LeicaDS9800 kit staining procedure. The immunostaining was performed on a Leica Biosystems BOND® RX instrument. Counterstained with Hematoxylin. Secondary antibody only control: Secondary antibody is ready to use LeicaDS9800 (BOND™ Polymer Refine Detection). Heat mediated antigen retrieval with Citrate buffer (pH 6.0, epitope retrieval solution 1) for 20 mins.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-GFP antibody [EPR14104] - Chicken IgY (Chimeric) (ab300643)

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

Immunohistochemical analysis of paraffin-embedded rat spleen labeling GFP with ab300643 at 1/10000 dilution (0.996 µg/ml) followed by ready to use Leica DS9800 (BOND™ Polymer Refine Detection) kit. No staining on rat spleen. The section was incubated with ab300643 for 30 mins at room temperature followed by anti-chicken IgG antibody (ab97136) for 8 mins during the LeicaDS9800 kit staining procedure. The immunostaining was performed on a Leica Biosystems BOND® RX instrument. Counterstained with Hematoxylin. Secondary antibody only control: Secondary antibody is ready to use LeicaDS9800 (BOND™ Polymer Refine Detection). Heat mediated antigen retrieval with Citrate buffer (pH 6.0, epitope retrieval solution 1) for 20 mins.



Western blot - Anti-GFP antibody [EPR14104] - Chicken IgY (Chimeric) (ab300643)

GFP Western blot staining using chicken Anti-GFP antibody

In Western blot, anti-GAPDH antibody (ab181602) loading control staining.

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

All lanes:
Western blot - Anti-GFP antibody [EPR14104] - Chicken IgY (Chimeric) (ab300643) at 1/1000 dilution

Lane 1:
293T (human embryonic kidney epithelial cell) whole cell lysate at 20 µg

Lane 2:
293T cells transfected with an empty vector whole cell lysate at 20 µg

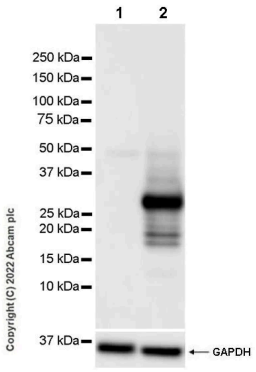
Lanes 3 - 4:
293T cells transfected with GFP tagged IFNA2 protein whole cell lysate at 20 µg

Secondary

All lanes:
Western blot - Goat Anti-Chicken IgY H&L (HRP) (ab6877) at 1/20000 dilution

Observed band size: 50 kDa

Exposure time: 40s



Western blot - Anti-GFP antibody [EPR14104] - Chicken IgY (Chimeric) (ab300643)

GFP Western blot staining using chicken Anti-GFP antibody

Blocking / Diluting buffer and concentration: 5% NFDM/TBST Exposure time: 3.25 seconds
All lanes:
Western blot - Anti-GFP antibody [EPR14104] - Chicken IgY (Chimeric) (ab300643) at 1/1000 dilution

Lane 1:
Non-transfected 293T (human embryonic kidney epithelial cell) whole cell lysate at 20 µg

Lane 2:
GFP transfected 293 whole cell lysate at 20 µg

Secondary

All lanes:
Western blot - Goat Anti-Chicken IgY H&L (HRP) (ab6877) at 1/20000 dilution

Observed band size: 27 kDa

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