abcam

Product datasheet

Goat Anti-Mouse IgG H&L (Alexa Fluor® 594) preadsorbed ab150120

102 References 11 Images

Overview

Product name	Goat Anti-Mouse IgG H&L (Alexa Fluor® 594) preadsorbed
Host species	Goat
Target species	Mouse
Specificity	By immunoelectrophoresis and ELISA this antibody reacts specifically with mouse IgG and with light chains common to other mouse immunoglobulins. No antibody was detected against non-immunoglobulin serum proteins. Reduced cross-reactivity to bovine, chicken, horse, human, pig, rabbit and rat IgG was detected. This antibody may cross react with IgG from other species.
Tested applications	**Suitable for:** IHC-Fr, ICC/IF, ELISA, IHC-P, Flow Cyt
Minimal cross-reactivity	Chicken, Cow, Horse, Human, Pig, Rabbit, Rat **more details**
Immunogen	The details of the immunogen for this antibody are not available.
Conjugation	Alexa Fluor® 594. Ex: 590nm, Em: 617nm

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C. Avoid freeze / thaw cycle. Stable for 12 months at -20°C. Store In the Dark.
Storage buffer	Preservative: 0.02% Sodium azide Constituents: 23% Glycerol (glycerin, glycerine), PBS, 1% BSA
Purity	Immunogen affinity purified
Purification notes	Antiserum was cross adsorbed using bovine, chicken, horse, human, pig, rabbit and rat immunosorbents to remove cross reactive antibodies. The antibody to mouse IgG was isolated by affinity chromatography using antigen coupled to agarose beads.
Clonality	Polyclonal
Isotype	IgG
General notes	Alexa Fluor® is a registered trademark of Molecular Probes, Inc, a Thermo Fisher Scientific

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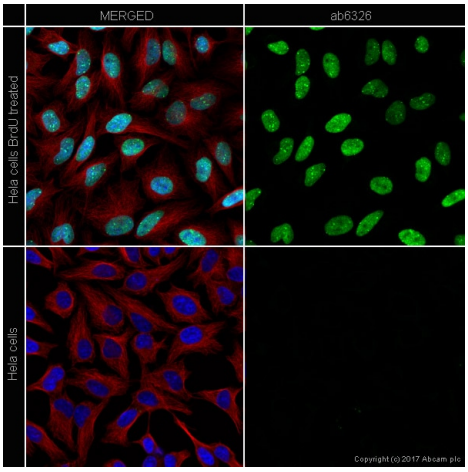
Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab150120 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

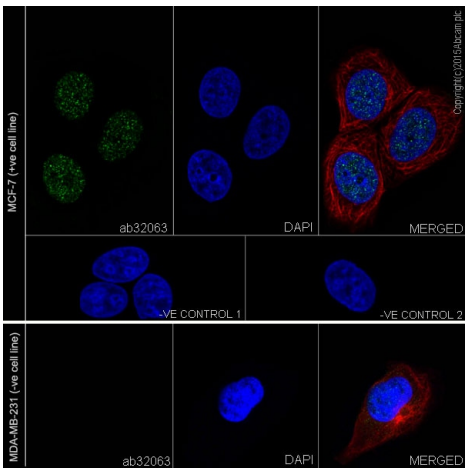
Application	Abreviews	Notes
IHC-Fr		Use at an assay dependent concentration.
ICC/IF		1/200 - 1/1000.
ELISA		Use at an assay dependent concentration.
IHC-P		Use at an assay dependent concentration.
Flow Cyt		1/2000. **ab178000** - Mouse monoclonal IgG1 (Alexa Fluor® 594), is suitable for use as an isotype control to complement this secondary antibody.

Images



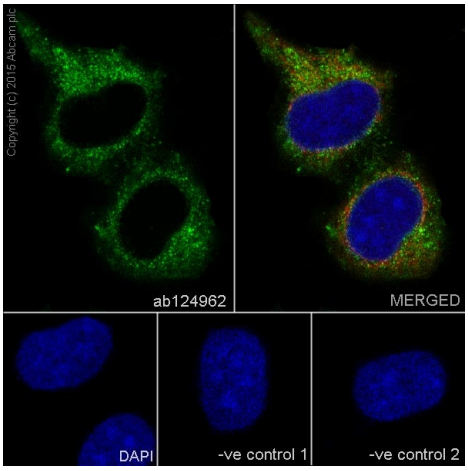
Immunocytochemistry/ Immunofluorescence - Goat Anti-Mouse IgG H&L (Alexa Fluor® 594) preadsorbed (ab150120)

ab6326 staining BrdU in Hela cells. Untreated and BrdU treated (10uM for 24 hours) cells. The cells were fixed with 100% methanol (5 min) and then subjected to acid hydrolysis using 2M HCL in 0.1% PBS-Tween for 30 minutes at room temperature to denature the DNA. They were then permeabilized with 0.1% PBS-Tween for 5 minutes and then blocked with 1% BSA/10% normal goat serum/0.3M glycine in 0.1%PBS-Tween for 1hr. The cells were then incubated overnight at 4°C with **ab6326** at 1µg/ml and **ab7291**, Mouse monoclonal [DM1A] to alpha Tubulin - Loading Control. Cells were then incubated with **ab150165**, Goat polyclonal Secondary Antibody to Rat IgG - H&L (Alexa Fluor® 488), pre-adsorbed at 1/1000 dilution (shown in green) and ab150120, Goat polyclonal Secondary Antibody to Mouse IgG - H&L (Alexa Fluor® 594), pre-adsorbed at 1/1000 dilution (shown in pseudocolour red). Nuclear DNA was labelled with DAPI (shown in blue). Image was acquired with a confocal microscope (Leica-Microsystems TCS SP8) and a single confocal section is shown.



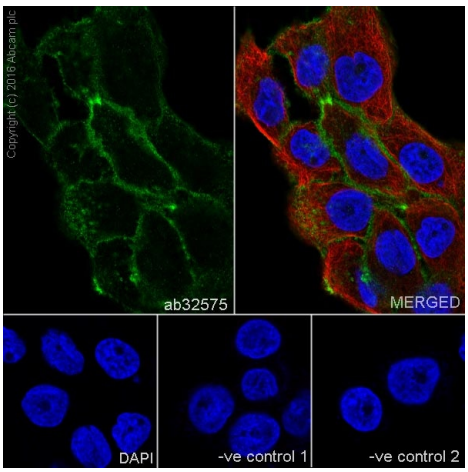
Immunocytochemistry/ Immunofluorescence - Goat Anti-Mouse IgG H&L (Alexa Fluor® 594) preadsorbed (ab150120)

Immunocytochemistry/Immunofluorescence analysis of MCF-7 cells labelling Estrogen Receptor alpha with purified **ab32063** at 1/1000. Cells were fixed with 4% paraformaldehyde and permeabilized with 0.1% Triton X-100. **ab150077**, an Alexa Fluor® 488-conjugated goat anti-rabbit IgG (1/1000) was used as the secondary antibody. The cells were co-stained with **ab7291**, a mouse anti-tubulin (1/1000) using ab150120, an Alexa Fluor® 594-conjugated goat anti-mouse IgG (1/1000) as the secondary antibody. Nuclei counterstained with DAPI (blue).
Control 1: primary antibody (1/1000) and secondary antibody, ab150120, an Alexa Fluor® 594-conjugated goat anti-mouse IgG (1/1000).
Control 2: **ab7291** (1/1000) and secondary antibody, **ab150077**, an Alexa Fluor® 488-conjugated goat anti-rabbit IgG (1/1000).



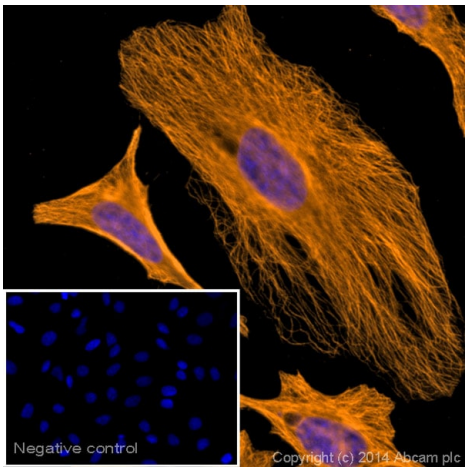
Immunocytochemistry/ Immunofluorescence - Goat Anti-Mouse IgG H&L (Alexa Fluor® 594) preadsorbed (ab150120)

Immunocytochemistry/Immunofluorescence analysis of HeLa cells labelling IL-1RA with purified **ab124962** at 1/100. Cells were fixed with 100% methanol and permeabilized with 0.1% Triton X-100. **ab150077**, an Alexa Fluor® 488-conjugated goat anti-rabbit IgG (1/1000) was used as the secondary antibody. DAPI (blue) was used as the nuclear counterstain. **ab7291**, a mouse anti-tubulin (1/1000) and ab150120, an Alexa Fluor® 594-conjugated goat anti-mouse IgG (1/1000) were also used.
Control 1: primary antibody (1/100) and secondary antibody, ab150120, an Alexa Fluor® 594-conjugated goat anti-mouse IgG (1/1000).
Control 2: **ab7291** (1/1000) and secondary antibody, **ab150077**, an Alexa Fluor® 488-conjugated goat anti-rabbit IgG (1/1000).



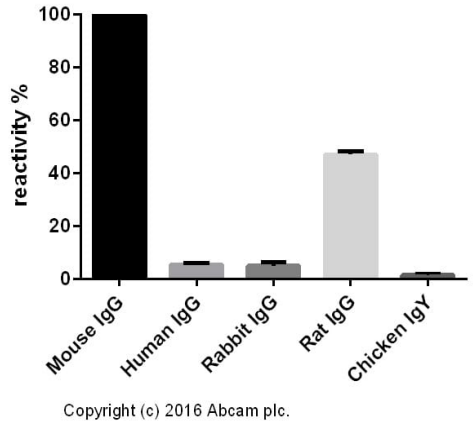
Immunocytochemistry/ Immunofluorescence - Goat Anti-Mouse IgG H&L (Alexa Fluor® 594) preadsorbed (ab150120)

Immunocytochemistry/Immunofluorescence analysis of A431 (human epidermoid carcinoma) cells labeling alpha smooth muscle Actin (green) with purified **ab32575** at 1/500. Cells were fixed with 4% paraformaldehyde and permeabilized with 0.1% Triton X-100. **ab150077**, Alexa Fluor® 488-conjugated goat anti-rabbit IgG (1/1000) was used as the secondary antibody. Cells were counterstained with **ab7291**, anti-Tubulin (mouse mAb) at 1/1000 followed by ab150120 Alexa Fluor®594 goat anti-mouse secondary (1/1000). Nuclei were counterstained with DAPI (blue).
For negative control 1, rabbit primary antibody and anti-mouse secondary antibody (ab150120) were used. For negative control 2, **ab7291** (mouse primary antibody) was used followed by anti-rabbit secondary antibody (**ab150077**).



Immunocytochemistry/ Immunofluorescence - Goat Anti-Mouse IgG H&L (Alexa Fluor® 594) preadsorbed (ab150120)

ICC/IF image of **ab7291** stained HeLa cells. The cells were 100% methanol fixed (5 min) and then incubated in 1%BSA / 10% normal goat serum / 0.3M glycine in 0.1% PBS-Tween for 1h to permeabilise the cells and block non-specific protein-protein interactions. The cells were then incubated with the antibody (**ab7291**, 1µg/ml) overnight at +4°C. The secondary antibody (orange) was ab150120 Alexa Fluor® 594 goat anti-mouse IgG (H+L) used at 1µg/ml for 1h. DAPI was used to stain the cell nuclei (blue) at a concentration of 1.43µM.

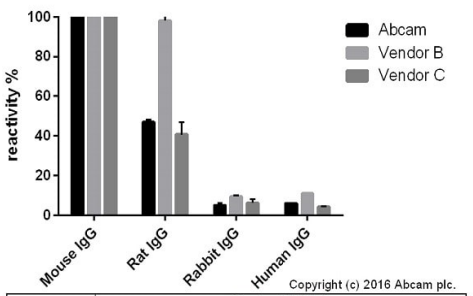


ELISA - Goat Anti-Mouse IgG H&L (Alexa Fluor® 594) preadsorbed (ab150120)

Cross-reactivity of the polyclonal secondary antibody **ab182017** was tested using a sandwich ELISA approach. The wells were coated with the indicated IgG standards at 1 µg/ml (50µl/well) and incubated overnight at 4°C, followed by a 5% BSA blocking step for 2h at RT. **ab182017** was then added starting at 1 µg/ml and gradually diluted 1/4 (50 µl/well), followed by incubation for 2h. For the detection Donkey anti-Goat IgG H&L (HRP) (**ab6885**) was used at 1/10,000 dilution (50 µl/well), followed by incubation for 1h at RT.

Fot the batch tested, ab182017 showed a cross-reactivity below 2% towards Chicken IgY, 6% towards Human IgG, 7% towards Rabbit IgG and 47% towards Rat IgG.

This data was developed using the unconjugated antibody (**ab182017**).

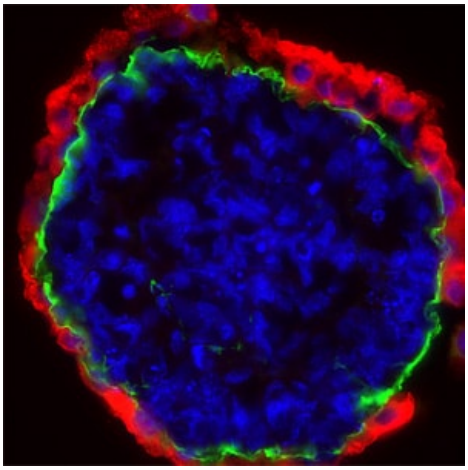


	Goat anti-Rabbit			
	Mouse IgG	Rat IgG	Rabbit IgG	Human IgG
Abcam	100%	46-48%	4-6%	6%
Vendor B	100%	96-100%	9-10%	11%
Vendor C	100%	36-45%	5-7%	4-5%

ELISA - Goat Anti-Mouse IgG H&L (Alexa Fluor® 594) preadsorbed (ab150120)

Cross-reactivity of Goat anti-Mouse IgG H&L (**ab182017**) and Goat anti-Mouse IgG H&L obtained from two different vendors was tested using a sandwich ELISA approach. The wells were coated with the indicated IgG standards (Rabbit, Human, Mouse and Rat) at 1 µg/ml (50µl/well) and incubated overnight at 4°C, followed by a 5% BSA blocking step for 2h at RT. Secondary antibodies were then added starting at 1 µg/ml and gradually diluted 1/4 (50 µl/well), followed by incubation for 2h. For the detection Donkey anti-Goat IgG H&L (HRP) (**ab6885**) was used at 1/10,000 dilution (50 µl/well), followed by incubation for 1h at RT. This data is from a representative dilution.

This data was developed using the unconjugated antibody (**ab182017**).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Goat Anti-Mouse IgG H&L (Alexa Fluor® 594) preadsorbed (ab150120)

This image is courtesy of Dr. Shaohua Li

Image: Courtesy of Dr. Shaohua Li, UMDNJ-Robert Wood Johnson Medical School

Sample: mouse embryonic stem cell-differentiated embryoid bodies (EBs)

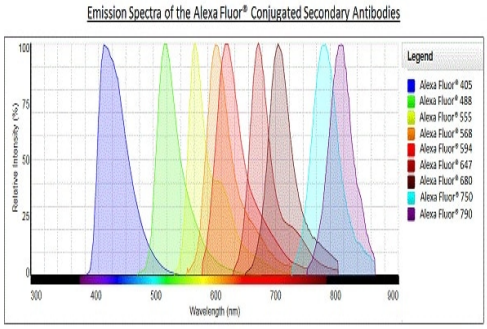
Preparation:

Fix in 3%PFA in PBS for 30 min at RTIncubate in 7.5% sucrose-PBS for 3h at RTIncubate in 15% sucrose-PBS at 4 degree Celsius overnightEmbed the EBs in tissue-Tek OCT compoundCut frozen sections to 4-20 µm thickness

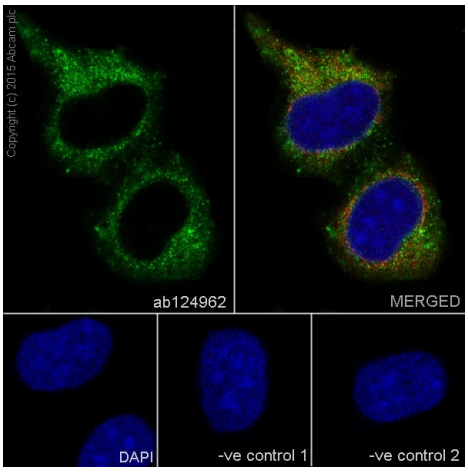
Primary antibody 1: Rabbit anti-laminin, 1:400

Primary antibody 2: Mouse anti-disabled-2, 1:100
Secondary antibody 1: Goat polyclonal Secondary Antibody to Rabbit IgG - H&L (Alexa Fluor® 488) pre-adsorbed (**ab150081**), 1:200

Secondary antibody 2: Goat polyclonal Secondary Antibody to Mouse IgG - H&L (Alexa Fluor® 594) pre-adsorbed (ab150120), 1:200
Nuclei were counterstained with DAPI

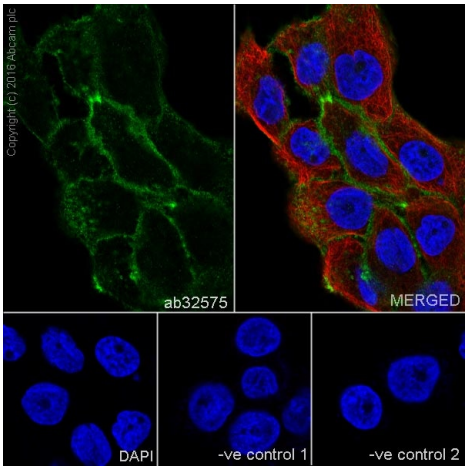


Alexa Fluor® - Goat Anti-Mouse IgG H&L (Alexa Fluor® 594) preadsorbed (ab150120)



Immunocytochemistry/ Immunofluorescence - Goat Anti-Mouse IgG H&L (Alexa Fluor® 594) preadsorbed (ab150120)

Unpurified **ab134175** staining Cyclin D1 in MCF7 (Human breast adenocarcinoma cell line) cells treated with KN-93 (**ab120980**). The cells were fixed with 100% methanol (5min) and then blocked in 1% BSA/10% normal goat serum/0.3M glycine in 0.1%PBS-Tween for 1h. The cells were then incubated with **ab134175** at 10µg/ml and **ab7291** at 1µg/ml overnight at +4°C, followed by a further incubation at room temperature for 1h with an Goat anti-Rabbit Alexa 488 secondary (**ab150081**) at 2 µg/ml (shown in green) and Goat anti-Mouse Alexa 594 secondary (ab150120) at 2 µg/ml (shown in pseudo color red). Nuclear DNA was labeled in blue with DAPI.
Negative controls: 1, Rabbit primary and anti-mouse secondary antibody; 2, Mouse primary antibody and anti-rabbit secondary antibody. Controls 1 and 2 indicate that there is no unspecific reaction between primary and secondary antibodies used.



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For negative control 1, rabbit primary antibody and anti-mouse secondary antibody (ab150120) were used. For negative control 2, **ab7291** (mouse primary antibody) was used followed by anti-rabbit secondary antibody (**ab150077**).

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