abcam

Product datasheet

Goat Anti-Mouse IgG H&L (Alexa Fluor® 488) preadsorbed ab150117

★★★★★ 6 Abreviews 286 References 13 Images

Overview

Product name	Goat Anti-Mouse IgG H&L (Alexa Fluor® 488) 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, Flow Cyt, IHC-P, ELISA
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® 488. Ex: 495nm, Em: 519nm

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. This antibody 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 Company. The Alexa Fluor® dye included in this product is provided under an intellectual property license from Life Technologies Corporation. As this product contains the Alexa Fluor® dye, the

purchase of this product conveys to the buyer the non-transferable right to use the purchased product and components of the product only in research conducted by the buyer (whether the buyer is an academic or for-profit entity). As this product contains the Alexa Fluor® dye the sale of this product is expressly conditioned on the buyer not using the product or its components, or any materials made using the product or its components, in any activity to generate revenue, which may include, but is not limited to use of the product or its components: in manufacturing; (ii) to provide a service, information, or data in return for payment (iii) for therapeutic, diagnostic or prophylactic purposes; or (iv) for resale, regardless of whether they are sold for use in research. For information on purchasing a license to this product for purposes other than research, contact Life Technologies Corporation, 5781 Van Allen Way, Carlsbad, CA 92008 USA or outlicensing@thermofisher.com.

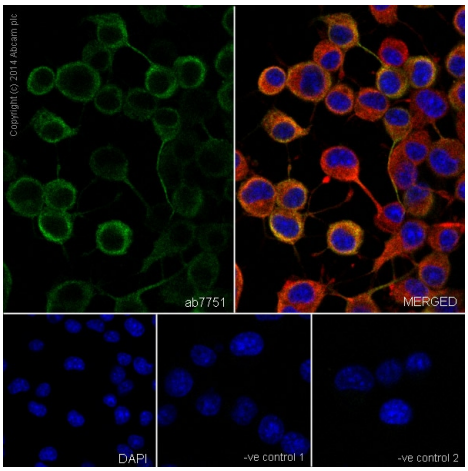
Applications

The Abpromise guarantee Our Abpromise guarantee covers the use of ab150117 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	★★★★☆ (1)	Use at an assay dependent concentration.
ICC/IF	★★★★★ (4)	1/200 - 1/1000.
Flow Cyt		1/2000.
IHC-P		Use at an assay dependent concentration.
ELISA		Use at an assay dependent concentration.

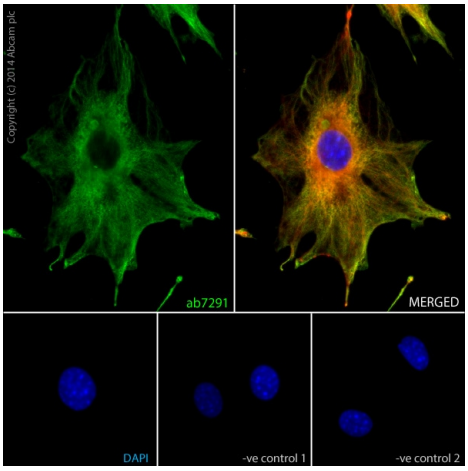
Images



Immunocytochemistry/ Immunofluorescence - Goat Anti-Mouse IgG H&L (Alexa Fluor® 488) preadsorbed (ab150117)

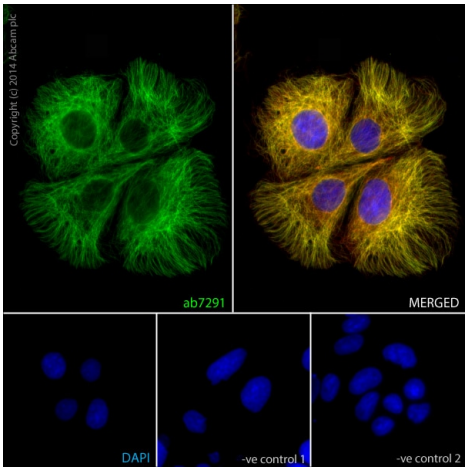
ab7751 staining beta III Tubulin in Neuro-2a cells. The cells were fixed with 100% methanol (5min) and then blocked in 1% BSA/10% normal goat serum/0.3M glycine in 0.1%PBS-Tween for 1h. The cells were then incubated with ab7751 at 1/1000 and ab6046 at 1µg/ml overnight at +4°C, followed by a further incubation at room temperature for 1h with an AlexaFluor®488 Goat anti-Mouse secondary (ab150117) at 2 µg/ml (shown in green) and AlexaFluor®594 Goat anti-Rabbit secondary (ab150088) at 2 µg/ml (shown in pseudo color red). Nuclear DNA was labelled 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.



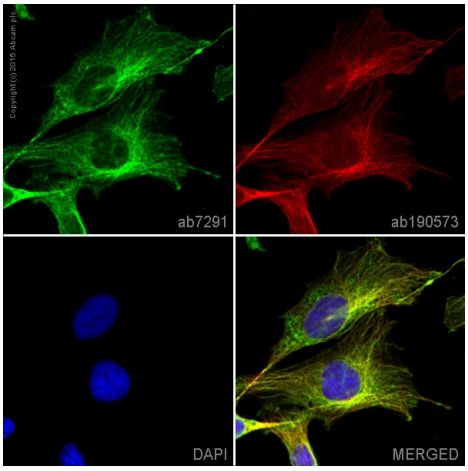
Immunocytochemistry/ Immunofluorescence - Goat Anti-Mouse IgG H&L (Alexa Fluor® 488) preadsorbed (ab150117)

ab7291 staining alpha-Tubulin in NIH3T3 cells. 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 ab7291 at 1µl/ml and ab6046 at 1µg/ml overnight at +4°C, followed by a further incubation at room temperature for 1h with an anti-mouse AlexaFluor® 488 (ab150117) at 2 µg/ml (shown in green) and anti-rabbit AlexaFluor® 594 (ab150088) at 2 µg/ml (shown in pseudo color red). Nuclear DNA was labelled in blue with DAPI.
Negative controls: 1, Rabbit primary antibody 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.



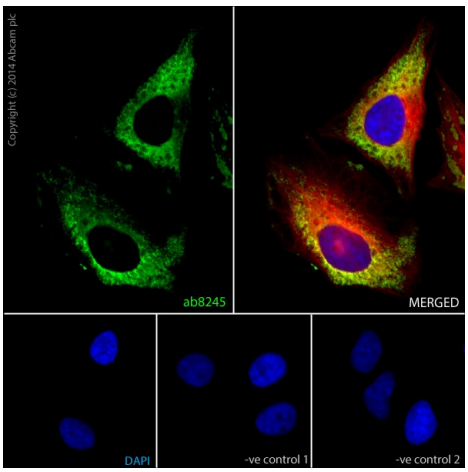
Immunocytochemistry/ Immunofluorescence - Goat Anti-Mouse IgG H&L (Alexa Fluor® 488) preadsorbed (ab150117)

ab7291 staining alpha-Tubulin in Caco-2 cells. 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 ab7291 at 1µg/ml and ab6046 at 1µg/ml overnight at +4°C, followed by a further incubation at room temperature for 1h with an anti-mouse AlexaFluor® 488 (ab150117) at 2 µg/ml (shown in green) and anti-rabbit AlexaFluor® 594 (ab150088) at 2 µg/ml (shown in pseudo color red). Nuclear DNA was labelled in blue with DAPI.
Negative controls: 1, Rabbit primary antibody 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.



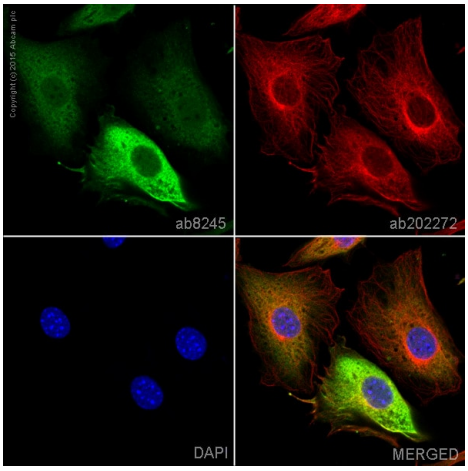
Immunocytochemistry/ Immunofluorescence - Goat Anti-Mouse IgG H&L (Alexa Fluor® 488) preadsorbed (ab150117)

ab7291 staining alpha-Tubulin in SV40LT-SMC cells. The cells were fixed with 4% formaldehyde (10 min), permeabilized in 0.1% Triton X-100 for 5 minutes 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 ab7291 at a working concentration of 0.5µg/ml and ab190573, Rabbit monoclonal [EP1332Y] to alpha Tubulin (Alexa Fluor® 647, shown in red) at 1/250 overnight at +4°C, followed by a further incubation at room temperature for 1h with an anti-mouse AlexaFluor® 488 (ab150117) at 2 µg/ml (shown in green). Nuclear DNA was labelled in blue with DAPI.
This product also gave a positive signal in 100% methanol (5 min) fixed SV40 cells under the same testing conditions.
Image was taken with a confocal microscope (Leica-Microsystems, TCS SP8).



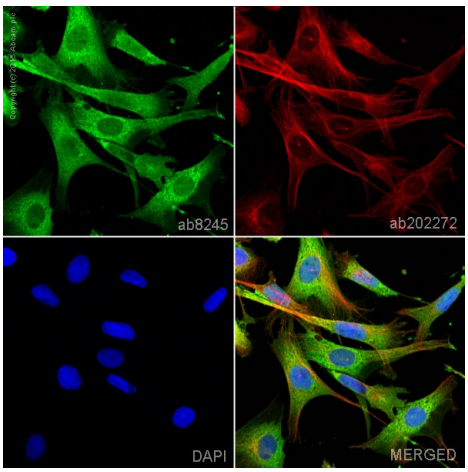
Immunocytochemistry/ Immunofluorescence - Goat Anti-Mouse IgG H&L (Alexa Fluor® 488) preadsorbed (ab150117)

ab8245 staining GAPDH in HeLa (Human epithelial cell line from cervix adenocarcinoma) cells.
The cells were fixed with 100% methanol (5 minutes) and then blocked in 1% BSA/10% normal goat serum/0.3M glycine in 0.1%PBS-Tween for 1 hour. The cells were then incubated with ab8245 at 5 µg/ml and ab6046 at 1 µg/ml overnight at +4°C, followed by a further incubation at room temperature for 1 hour with Goat Anti-Mouse IgG H&L (Alexa Fluor® 488) preadsorbed (ab150117) at 2 µg/ml (shown in green) and Goat Anti-Rabbit IgG H&L (Alexa Fluor® 594) preadsorbed (ab150088) at 2 µg/ml (shown in pseudo color red). Nuclear DNA was labeled in blue with DAPI.
Negative controls: 1, Rabbit primary antibody 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.



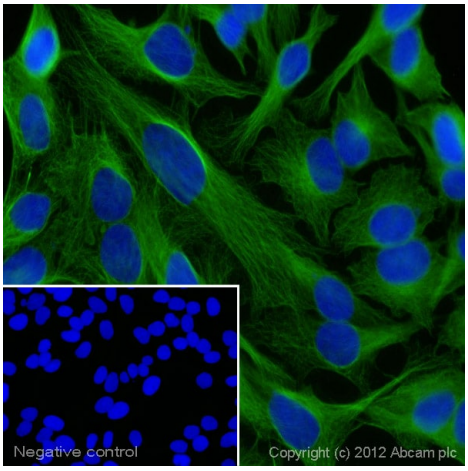
Immunocytochemistry/ Immunofluorescence - Goat Anti-Mouse IgG H&L (Alexa Fluor® 488) preadsorbed (ab150117)

ab8245 staining GAPDH in NIH/3T3 (Mouse embryo fibroblast cell line) cells.
The cells were fixed with 4% formaldehyde (10 minutes) and then blocked in 1% BSA/10% normal goat serum/0.3M glycine in 0.1%PBS-Tween for 1 hour. The cells were then incubated with ab8245 at 1 µg/ml and ab202272 at 1/250 overnight at +4°C, followed by a further incubation at room temperature for 1 hour with Goat Anti-Mouse IgG H&L (Alexa Fluor® 488) preadsorbed (ab150117) (shown in green). Nuclear DNA was labeled in blue with DAPI.
Image was taken with a confocal microscope (Leica-Microsystems, TCS SP8).



Immunocytochemistry/ Immunofluorescence - Goat Anti-Mouse IgG H&L (Alexa Fluor® 488) preadsorbed (ab150117)

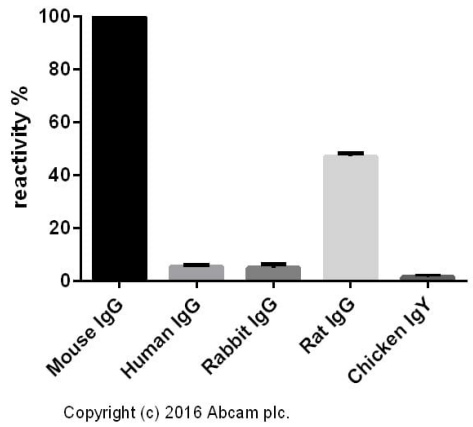
ab8245 staining GAPDH in SV40LT-SMC cells.
The cells were fixed with 4% formaldehyde (10 minutes), permeabilized with 0.1% Triton X-100 for 5 minutes and then blocked in 1% BSA/10% normal goat serum/0.3M glycine in 0.1%PBS-Tween for 1 hour. The cells were then incubated with ab8245 at 5µg/ml and ab202272 at 1/250 overnight at +4°C, followed by a further incubation at room temperature for 1h with Goat Anti-Mouse IgG H&L (Alexa Fluor® 488) preadsorbed (ab150117) (shown in green). Nuclear DNA was labeled in blue with DAPI.
Image was taken with a confocal microscope (Leica-Microsystems, TCS SP8).



Immunocytochemistry/ Immunofluorescence - Goat Anti-Mouse IgG H&L (Alexa Fluor® 488) preadsorbed (ab150117)

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, 10µg/ml) overnight at +4°C. The secondary antibody (green) was ab150117 Alexa Fluor® 488 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.

The negative control (inset) is a secondary-only assay to demonstrate low non-specific binding of the secondary antibody.

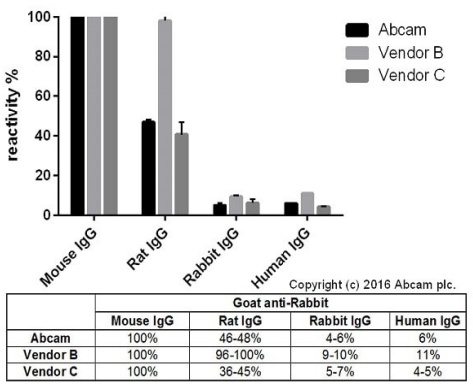


ELISA - Goat Anti-Mouse IgG H&L (Alexa Fluor® 488) preadsorbed (ab150117)

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).

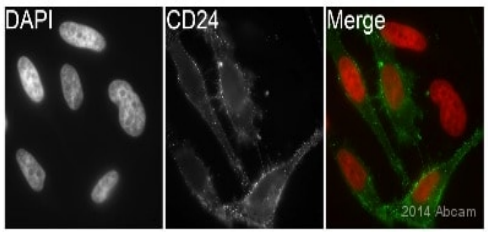


	Goat anti-Rabbit			
	Mouse IgG	Rat IgG	Rabbit IgG	Human IgG
Abcam	100%	46-48%	4-6%	6%
Vendor B	100%	96-100%	9-10%	11%
Vendor C	100%	36-45%	5-7%	4-5%

ELISA - Goat Anti-Mouse IgG H&L (Alexa Fluor® 488) preadsorbed (ab150117)

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.

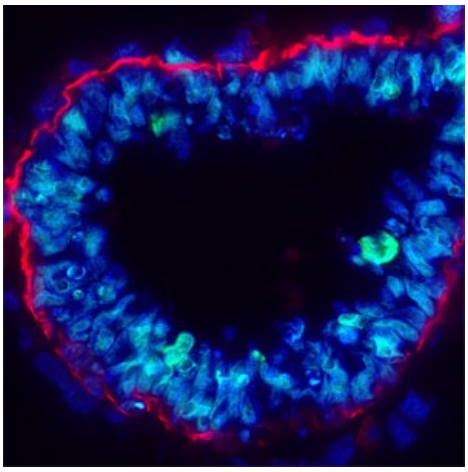
This data was developed using the unconjugated antibody (ab182017).



Immunocytochemistry/ Immunofluorescence - Goat Anti-Mouse IgG H&L (Alexa Fluor® 488) preadsorbed (ab150117)

This image is courtesy of an Abreview submitted by Kirk McManus.

ab134375 staining CD24 in human HeLa cells by ICC/IF (Immunocytochemistry/immunofluorescence). Cells were fixed with paraformaldehyde. Samples were incubated with primary antibody (1/200 in PBS) for 1 hour at 22°C. An Alexa Fluor® 488-conjugated goat anti-mouse IgG H&L (ab150117) (1/200) was used as the secondary antibody.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Goat Anti-Mouse IgG H&L (Alexa Fluor® 488) preadsorbed (ab150117)

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)

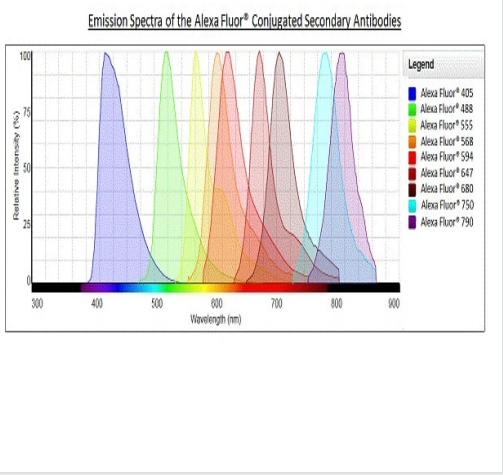
Preparation:

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: Mouse anti-Ki67 (ab53280), 1:50

Primary antibody 2: Rabbit anti-laminin, 1:400
Secondary antibody 1: Goat polyclonal Secondary Antibody to Mouse IgG - H&L (Alexa Fluor® 488) pre-adsorbed (ab150117), 1:200

Secondary antibody 2: Goat polyclonal Secondary Antibody to Rabbit IgG - H&L (Alexa Fluor® 594) pre-adsorbed (ab150084), 1:300
Nuclei were counterstained with DAPI



Alexa Fluor® - Goat Anti-Mouse IgG H&L (Alexa Fluor® 488) preadsorbed (ab150117)

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