

## Product datasheet

# Goat Anti-Mouse IgG H&L (Alexa Fluor® 488) ab150113

★★★★★ 15 Abreviews 535 References 8 Images

### Overview

<b>Product name</b>	Goat Anti-Mouse IgG H&L (Alexa Fluor® 488)
<b>Description</b>	Goat polyclonal Secondary Antibody to Mouse IgG - H&L (Alexa Fluor® 488)
<b>Host species</b>	Goat
<b>Target species</b>	Mouse
<b>Tested applications</b>	<b>Suitable for:</b> IHC-Fr, ICC/IF, ELISA, Flow Cyt, IHC-P
<b>Immunogen</b>	Other Immunogen Type corresponding to Mouse IgG.
<b>Conjugation</b>	Alexa Fluor® 488. Ex: 495nm, Em: 519nm

### Properties

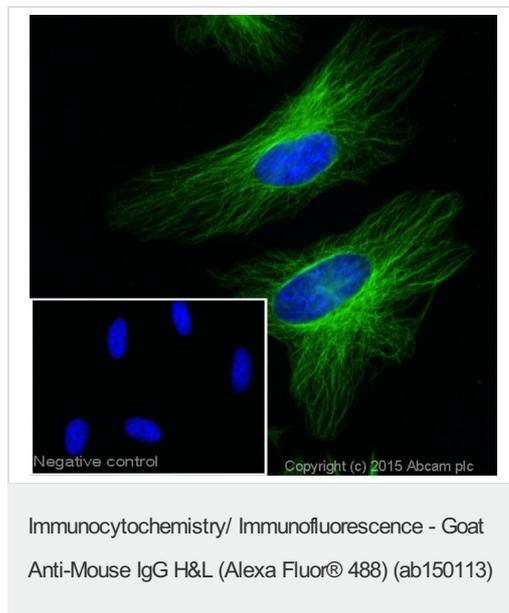
<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C. Avoid freeze / thaw cycle. Stable for 12 months at -20°C. Store In the Dark.
<b>Storage buffer</b>	Preservative: 0.02% Sodium azide Constituents: 23% Glycerol (glycerin, glycerine), PBS, 1% BSA
<b>Purity</b>	Immunogen affinity purified
<b>Purification notes</b>	This antibody was isolated by affinity chromatography using antigen coupled to agarose beads.
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	IgG
<b>General notes</b>	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: (i) 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

## Applications

**The Abpromise guarantee** Our [Abpromise guarantee](#) covers the use of ab150113 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

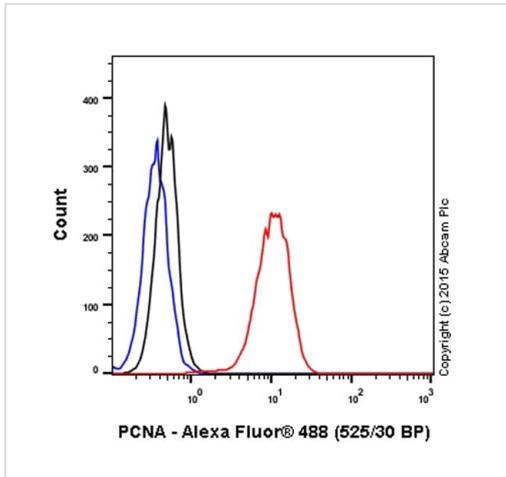
Application	Abreviews	Notes
IHC-Fr	★★★★★ (3)	Use at an assay dependent concentration.
ICC/IF	★★★★★ (6)	1/200 - 1/1000.
ELISA		Use at an assay dependent concentration.
Flow Cyt		1/2000. <a href="#">ab170190</a> - Mouse monoclonal IgG1 (Alexa Fluor® 488), is suitable for use as an isotype control to complement this secondary antibody.
IHC-P	★★★★★ (3)	Use at an assay dependent concentration.

## Images



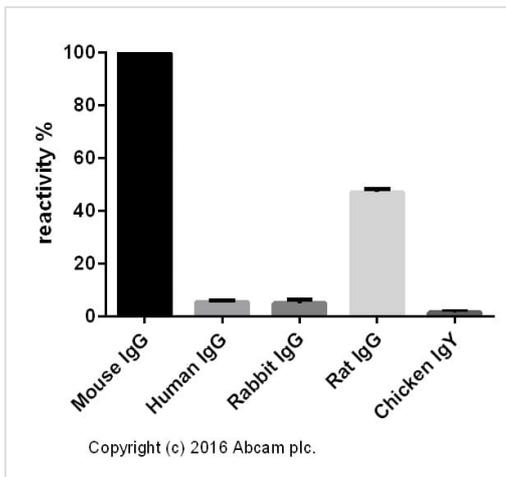
ICC/IF image of [ab7291](#) stained HeLa cells. The cells were 100% methanol fixed (5 min), permeabilized with 0.1% Triton X-100 for 5 minutes and then incubated in 1% BSA / 10% normal goat serum / 0.3M glycine in 0.1% PBS-Tween for 1h to block non-specific protein-protein interactions. The cells were then incubated with the antibody ([ab7291](#), 1µg/ml) overnight at +4°C. The secondary antibody (green) was ab150113 Alexa Fluor® 488 goat anti-mouse IgG (H+L) used at 2µg/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.



Flow Cytometry - Goat Anti-Mouse IgG H&L (Alexa Fluor® 488) (ab150113)

Overlay histogram showing HeLa cells stained with [ab29](#) (red line). The cells were fixed with 80% methanol (5 min) and then permeabilized with 0.1% PBS-Tween 20 for 20 min. The cells were then incubated in 1x PBS / 10% normal goat serum / 0.3M glycine to block non-specific protein-protein interactions followed by the antibody ([ab29](#), 0.1 µg/1x10<sup>6</sup> cells) for 30 min at 22°C. The secondary antibody used was Alexa Fluor® 488 goat anti-mouse IgG (H&L) (ab150113) at 1/2000 dilution for 30 min at 22°C. Isotype control antibody (black line) was mouse IgG2a [ICIGG2A] ([ab91361](#), 0.1 µg/1x10<sup>6</sup> cells) used under the same conditions. Unlabelled sample (blue line) was also used as a control. Acquisition of >5,000 events were collected using a 20mW Argon ion laser (488nm) and 525/30 bandpass filter.

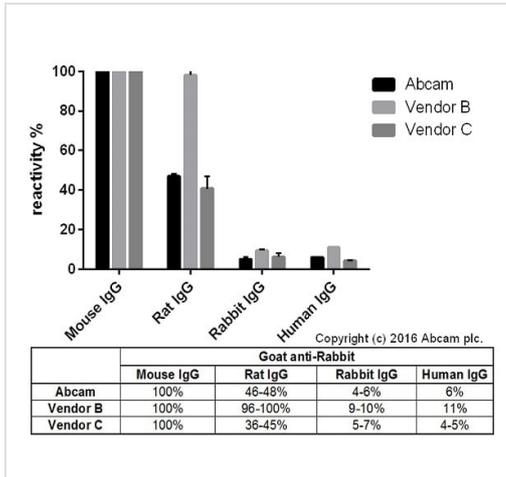


ELISA - Goat Anti-Mouse IgG H&L (Alexa Fluor® 488) (ab150113)

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 (50 µl/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.

**For 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.**

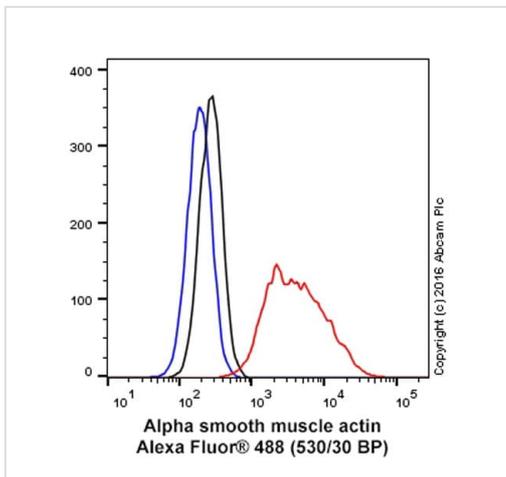
These data were developed using the unconjugated antibody ([ab182017](#)).



ELISA - Goat Anti-Mouse IgG H&L (Alexa Fluor® 488) (ab150113)

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 (50 µl/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.

These data were developed using the unconjugated antibody ([ab182017](#)).

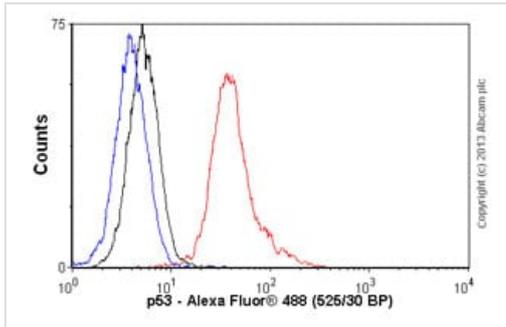


Flow Cytometry - Goat Anti-Mouse IgG H&L (Alexa Fluor® 488) (ab150113)

Overlay histogram showing SV40LT-SMC cells stained with [ab7817](#) (red line). The cells were fixed with 4% formaldehyde (10 min) and then permeabilized with 0.1% PBS-Triton X-100 for 15 min. The cells were then incubated in 1x PBS / 10% normal goat serum to block non-specific protein-protein interactions followed by the antibody ([ab7817](#), 0.1 µg/1x10<sup>6</sup> cells) for 30 min at 22°C. The secondary antibody used was Goat Anti-Mouse IgG H&L (Alexa Fluor® 488) (ab150113) at 1/2000 dilution for 30 min at 22°C. Isotype control antibody (black line) was mouse IgG2a [18C8BC7AD10] ([ab170191](#)) used at the same concentration and conditions as the primary antibody. Unlabelled sample (blue line) was also used as a control.

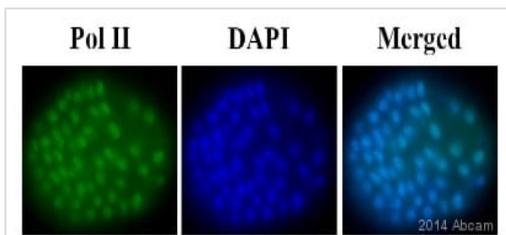
Acquisition of >5,000 events were collected using a 50 mW Blue laser (488nm) and 530/30 bandpass filter.

This antibody gave a positive signal in HeLa cells fixed with 80% methanol (5 min)/permeabilized with 0.1% PBS-Triton X-100 for 15 min used under the same conditions.



Flow Cytometry - Goat Anti-Mouse IgG H&L (Alexa Fluor® 488) (ab150113)

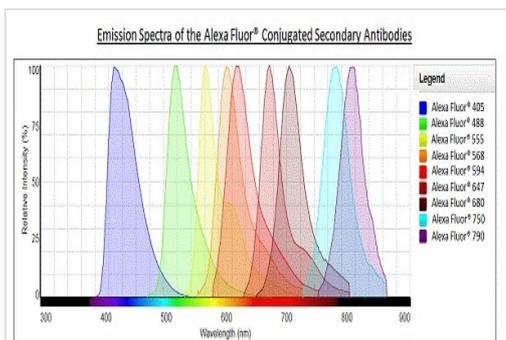
Overlay histogram showing HeLa cells stained with [ab26](#) (red line). The cells were fixed with 80% methanol (5 min) and then permeabilized with 0.1% PBS-Tween for 20 min. The cells were then incubated in 1x PBS / 10% normal goat serum / 0.3M glycine to block non-specific protein-protein interactions followed by the antibody ([ab26](#), 1µg/1x10<sup>6</sup> cells) for 30 min at 22°C. The secondary antibody used was Alexa Fluor® 488 goat anti-mouse IgG (H&L) at 1/2000 dilution for 30 min at 22°C. Isotype control antibody (black line) was mouse IgG1 [ICIGG1] ([ab91353](#), 2µg/1x10<sup>6</sup> cells) used under the same conditions. Unlabelled sample (blue line) was also used as a control. Acquisition of >5,000 events were collected using a 20mW Argon ion laser (488nm) and 525/30 bandpass filter. This antibody gave a positive signal in HeLa cells fixed with 4% paraformaldehyde (10 min)/permeabilized with 0.1% PBS-Tween for 20 min used under the same conditions.



IHC - Wholemout - Goat Anti-Mouse IgG H&L (Alexa Fluor® 488) (ab150113)

IHC - Wholemout of *Caenorhabditis elegans* embryo labelling RNA polymerase II CTD repeat YSPTSPS with [ab817](#). Sample was incubated with primary antibody (1/100 in PBS + 3% BSA + 0.1% Triton-X 100) for 24 hours at 4°C. [ab150113](#), an Alexa Fluor® 488-conjugated goat anti-mouse IgG polyclonal (undiluted) was used as the secondary antibody.

This image is courtesy of an anonymous Abreview.



Alexa Fluor® - Goat Anti-Mouse IgG H&L (Alexa Fluor® 488) (ab150113)

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