abcam

Product datasheet

Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) preadsorbed ab150081

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Overview

Product name	Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) preadsorbed
Host species	Goat
Target species	Rabbit
Specificity	By immunoelectrophoresis and ELISA this antibody reacts specifically with rabbit IgG and with light chains common to other rabbit immunoglobulins. No antibody was detected against non-immunoglobulin serum proteins. Reduced cross-reactivity to bovine, chicken, horse, human, mouse, pig, 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, Mouse, Pig, 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 a human, mouse 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**.

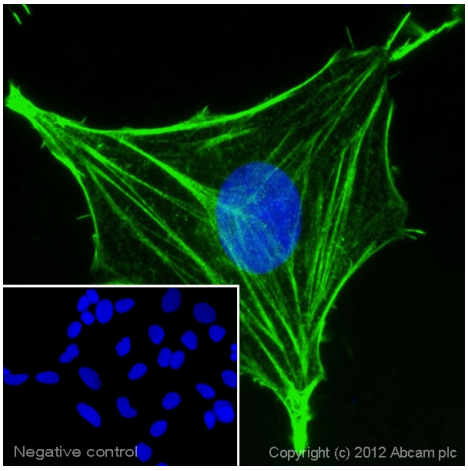
Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab150081 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	★★★★★ **(3)**	1/200 - 1/1000.
Flow Cyt		1/2000 - 1/4000.
IHC-P		Use at an assay dependent concentration.
ELISA		Use at an assay dependent concentration.

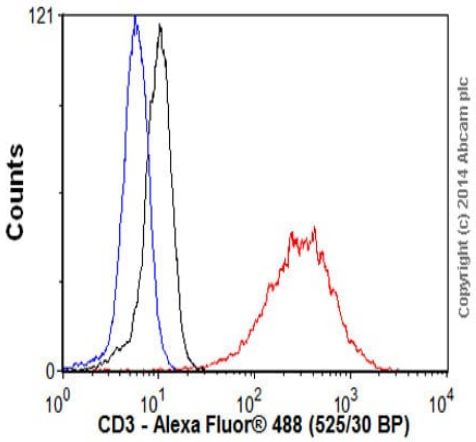
Images



Immunocytochemistry/ Immunofluorescence - Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) preadsorbed (ab150081)

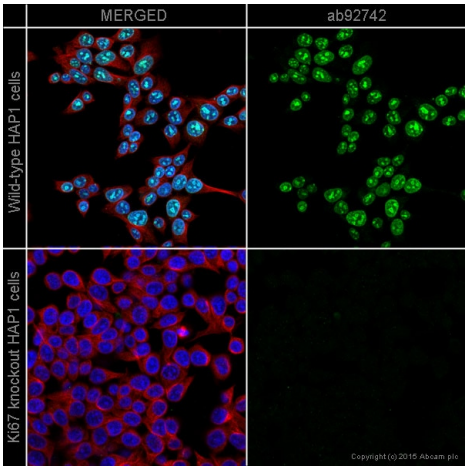
ICC/IF image of **ab8227** stained HeLa cells. The cells were 4% formaldehyde fixed (10 min) and then incubated in 1%BSA / 10% normal goat serum / 0.3M glycine in 0.1% PBS-Tween for 1h to permeabilise the cells and block non-specific protein-protein interactions. The cells were then incubated with the antibody (**ab8227**, 5µg/ml) overnight at +4°C. The secondary antibody (green) was ab150081 Alexa Fluor® 488 goat anti-rabbit 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.



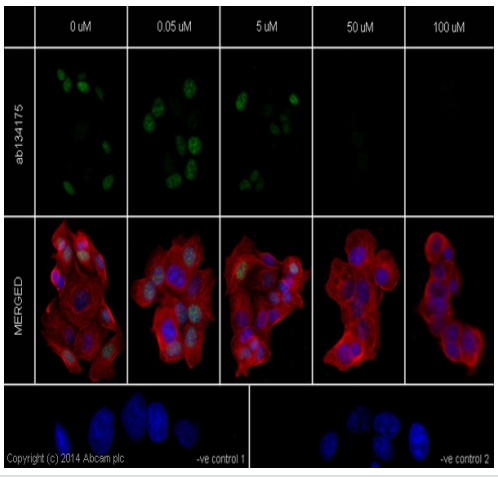
Flow Cytometry - Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) preadsorbed (ab150081)

Overlay histogram showing Jurkat cells stained with **ab16669** (red line). The cells were fixed with 4% paraformaldehyde (10 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 **ab16669**, 1/1000 dilution) for 30 min at 22°C. The secondary antibody Goat anti-rabbit IgG H&L (Alexa Fluor® 488, pre-adsorbed) (ab150081) was used at 1/2000 dilution for 30 min at 22°C. Isotype control antibody (black line) was rabbit IgG (monclonal) (0.1µg/1x10^6 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.



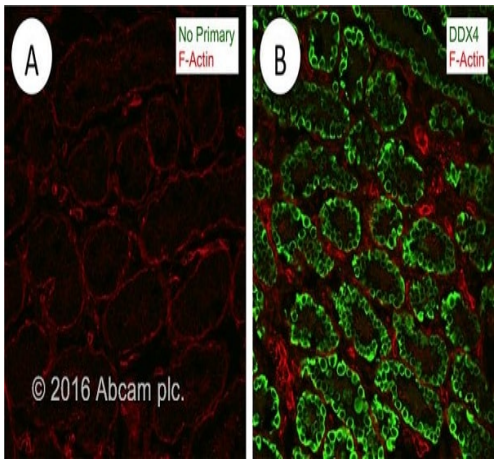
Immunocytochemistry/ Immunofluorescence - Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) preadsorbed (ab150081)

ab92742 staining Ki67 in wild-type HAP1 cells (top panel) and Ki67 knockout HAP1 cells (bottom panel). The cells were fixed with 100% methanol (5min), permeabilized with 0.1% Triton X-100 for 5 minutes and then blocked with 1% BSA/10% normal goat serum/0.3M glycine in 0.1% PBS-Tween for 1h. The cells were then incubated with **ab92742** at 1µg/ml and **ab195889** at 1/250 dilution (shown in pseudo colour red) overnight at +4°C, followed by a further incubation at room temperature for 1h with a goat secondary antibody to Rabbit IgG (Alexa Fluor® 488) (ab150081) at 2 µg/ml (shown in green). Nuclear DNA was labeled in blue with DAPI.



Immunocytochemistry/ Immunofluorescence - Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) preadsorbed (ab150081)

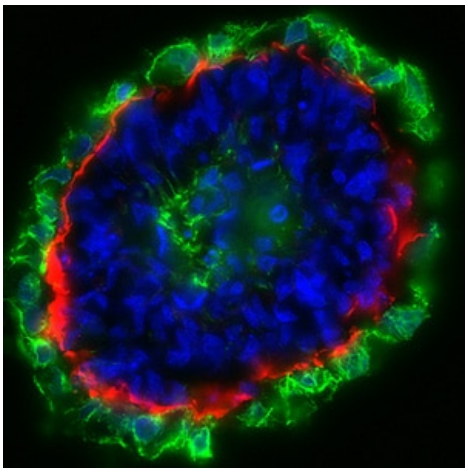
Unpurified **ab134175** staining Cyclin D1 in MCF7 (Human breast adenocarcinoma cell line) cells treated with KN-93 (**ab120980**). The cells were fixed with 100% methanol (5min) and then blocked in 1% BSA/10% normal goat serum/0.3M glycine in 0.1%PBS-Tween for 1h. The cells were then incubated with **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.



Immunohistochemistry (Frozen sections) - Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) preadsorbed (ab150081)

This image is courtesy of an abreview submitted by Bryan Niedenberger

Postnatal day 6 mouse testes were fixed with 4% paraformaldehyde. Tissue was embedded in O.C.T. and frozen. 5 micron sections were cut and transferred to slides. Sections were permeabilized with 0.1% Triton X-100 in PBS, and blocked with 3% BSA in 0.1% Triton X-100 + PBS. Sections were incubated with either (A) no primary antibody or (B) anti-DDX4 (**ab13840**) for 1 h at RT. Sections were then washed 3X with 0.1% Triton X-100 in PBS and Goat-Anti Rabbit 488 (ab150081) applied at a 1/500 dilution. Sections were then mounted after washing 3X with 0.1% Triton X-100 in PBS.



Immunohistochemistry (Frozen sections) - Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) preadsorbed (ab150081)

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)

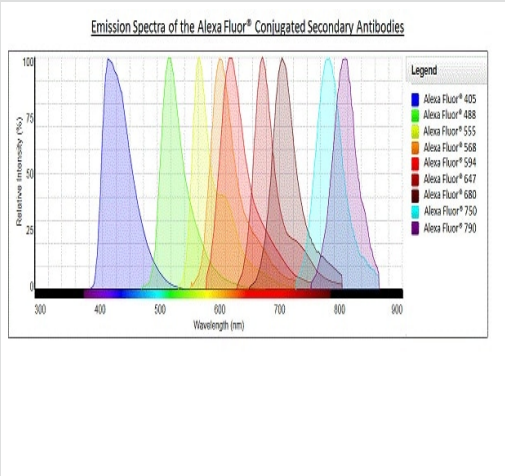
Preparation:

Fix in 3% PFA in PBS for 30 min at RT Incubate in 7.5% sucrose-PBS for 3h at RT Incubate in 15% sucrose-PBS at 4 degree Celsius overnight Embed the EBs in tissue-Tek OCT compound Cut frozen sections to 4-20 µm thickness

Primary antibody 1: Rabbit anti cytokeratin 8 (**ab53280**), 1:100

Primary antibody 2: Rat anti-perlecan, 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 Rat IgG - H&L (Cy5®) pre-adsorbed, 1:200
Nuclei were counterstained with DAPI



Alexa Fluor® - Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) preadsorbed (ab150081)

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