

Product datasheet

Goat Anti-Mouse IgG H&L (Alexa Fluor® 405) ab175660

★★★★★ [1 Abreviews](#) [17 References](#) [4 Images](#)

Overview

| | |
|----------------------------|---|
| Product name | Goat Anti-Mouse IgG H&L (Alexa Fluor® 405) |
| Host species | Goat |
| Target species | Mouse |
| Tested applications | Suitable for: IHC-Fr, ICC/IF, Flow Cyt, IHC-P, ELISA |
| Immunogen | The details of the immunogen for this antibody are not available. |
| Conjugation | Alexa Fluor® 405. Ex: 402nm, Em: 421nm |

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 | This antibody was isolated by affinity chromatography using antigen coupled to agarose beads. |
| Clonality | Polyclonal |
| Isotype | IgG |
| General notes | We recommend storage time at 4°C should be minimal, since this may affect the signal strength. 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 ab175660 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

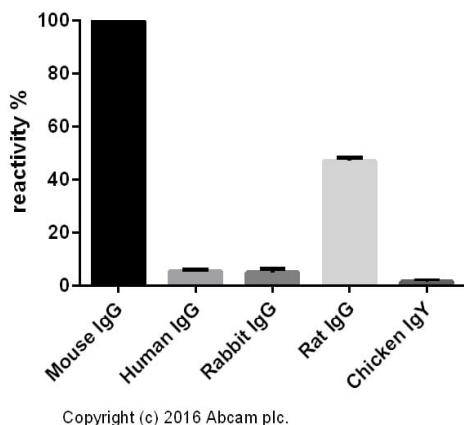
| Application | Abreviews | Notes |
|-------------|-----------|---|
| IHC-Fr | | Use at an assay dependent concentration. |
| ICC/IF | | 1/200 - 1/1000. We recommend the use of a dedicated 405 filter for optimal results not the DAPI filter. The DAPI filter may not excite until the maximum emission peaks of Alexa Fluor® 405 dye (see difference below) Ex max: Alexa Fluor® 405 = 402nm / DAPI = 359nm Em max: Alexa Fluor® 405 = 421nm / DAPI = 461nm |
| Flow Cyt | | 1/2000. |
| IHC-P | | Use at an assay dependent concentration. |
| ELISA | | Use at an assay dependent concentration. |

Images



ICC/IF image of **ab7291** stained HeLa cells. The cells were 4% formaldehyde fixed (10 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 (blue) was ab175660 Alexa Fluor® 405 goat anti-mouse IgG (H+L) used at 1µg/ml for 1h. DRAQ5™ (**ab108410**) was used to stain the cell nuclei (red) at a concentration of 1.25µM.

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

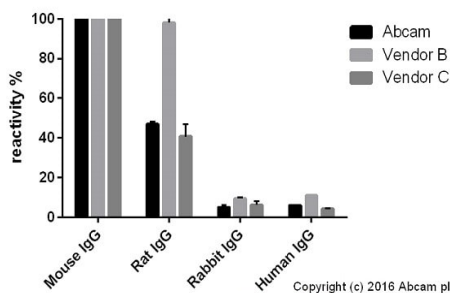


ELISA - Goat Anti-Mouse IgG H&L (Alexa Fluor® 405) (ab175660)

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.

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

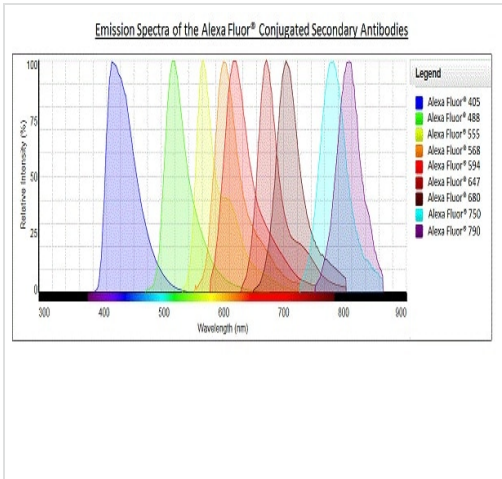


| | Goat anti-Rabbit | | | |
|----------|------------------|---------|------------|-----------|
| | Mouse IgG | Rat IgG | Rabbit IgG | Human IgG |
| Abcam | 100% | 46-48% | 4-8% | 6% |
| Vendor B | 100% | 96-100% | 9-10% | 11% |
| Vendor C | 100% | 36-45% | 5-7% | 4-5% |

ELISA - Goat Anti-Mouse IgG H&L (Alexa Fluor® 405) (ab175660)

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.

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



Alexa Fluor® - Goat Anti-Mouse IgG H&L (Alexa Fluor® 405) (ab175660)

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