

## Product datasheet

# Goat Anti-Mouse IgG H&L (Biotin) ab207996

[1 References](#) [5 Images](#)

### Overview

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<b>Product name</b>	Goat Anti-Mouse IgG H&L (Biotin)
<b>Host species</b>	Goat
<b>Target species</b>	Mouse
<b>Specificity</b>	The antibody used for conjugation reacts with mouse immunoglobulins of all classes. Cross-reactions as determined by ELISA for the unconjugated antibody ( <a href="#">ab182017</a> ): Chicken IgY, less than 2%. Human IgG, less than 6%. Rabbit IgG, less than 7%. Rat IgG, less than 47%.
<b>Tested applications</b>	<b>Suitable for:</b> Flow Cyt, WB, ICC/IF, IHC-Fr, IP, ELISA, IHC-P
<b>Immunogen</b>	The details of the immunogen for this antibody are not available.
<b>Conjugation</b>	Biotin

### Properties

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<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. Store In the Dark.
<b>Storage buffer</b>	pH: 7.40 Preservative: 0.02% Sodium azide Constituents: PBS, 1% BSA, 30% Glycerol (glycerin, glycerine)
<b>Purity</b>	Affinity purified
<b>Purification notes</b>	Immunogen affinity purified - This antibody was isolated by affinity chromatography using antigen coupled to agarose beads and conjugated to Biotin.
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	IgG

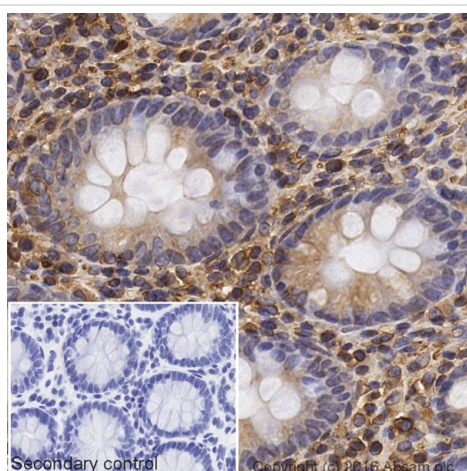
### Applications

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**The Abpromise guarantee** Our **Abpromise guarantee** covers the use of ab207996 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
Flow Cyt		Use at an assay dependent concentration.
WB		Use at an assay dependent concentration.
ICC/IF		Use at an assay dependent concentration.
IHC-Fr		Use at an assay dependent concentration.
IP		Use at an assay dependent concentration.
ELISA		1/20000 - 1/200000.
IHC-P		1/200 - 1/5000. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.

## Images



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Goat Anti-Mouse IgG H&L (Biotin) (ab207996)

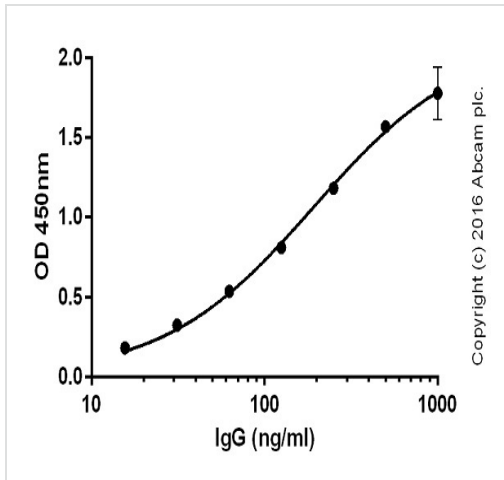
IHC image of alpha Tubulin staining in a section of formalin-fixed paraffin-embedded normal human colon tissue\*. Ab207996 Goat Anti-Mouse IgG H & L (Biotin) was used as the secondary antibody.

Staining was performed on a Leica Bond™. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH6, epitope retrieval solution 1) for 20 mins, before blocking of endogenous biotin using [ab64212](#). The section was then incubated with [ab7291](#), 1/100 dilution, for 15 mins at room temperature, followed by ab207996, 1/500 dilution, for 15 mins at room temperature. Detection was via an HRP conjugated ABC system and DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

The inset negative control image is taken from an identical assay without primary antibody.

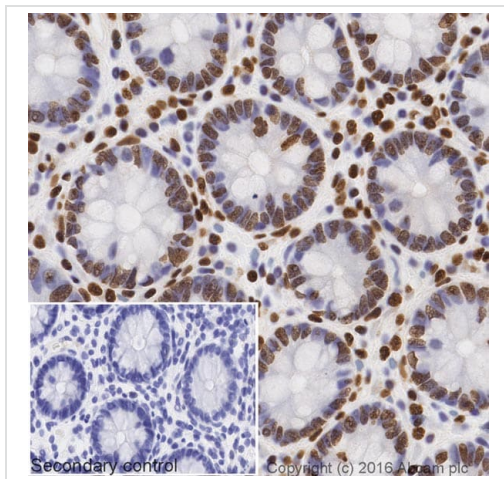
For other IHC staining systems (automated and non-automated) customers should optimize variable parameters such as antigen retrieval conditions, primary antibody concentration and antibody incubation times.

*\*Tissue obtained from the Human Research Tissue Bank, supported by the NIHR Cambridge Biomedical Research Centre*



ELISA - Goat Anti-Mouse IgG H&L (Biotin)  
(ab207996)

ab207996 was tested by direct ELISA, where wells were coated with serially diluted mouse IgG (1000 – 16 ng/ml) for 2 hours, followed by a 2 hour blocking step (5% BSA). ab207996 (1:20,000 dilution; 2 hours) was added and detected by streptavidin-HRP (**ab7403**; 1:10,000 dilution; 1 hour). Signal was developed by TMB substrate. Data from duplicates; +/- SD.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Goat Anti-Mouse IgG H&L (Biotin) (ab207996)

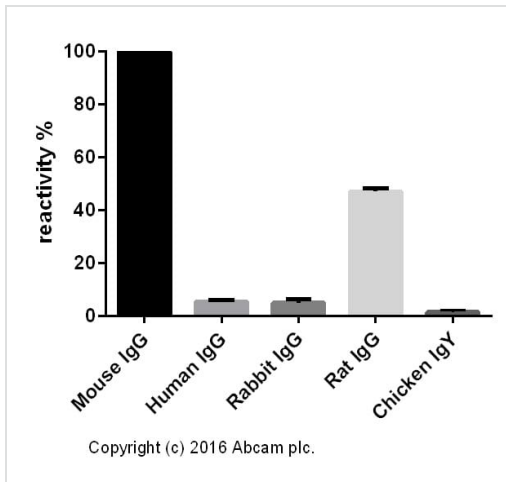
IHC image of Histone H4 staining in a section of formalin-fixed paraffin-embedded normal human colon tissue\*. Ab207996 Goat Anti-Mouse IgG H & L (Biotin) was used as the secondary antibody.

Staining was performed on a Leica Bond™. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH6, epitope retrieval solution 1) for 20 mins, before blocking of endogenous biotin using **ab64212**. The section was then incubated with **ab31830**, 1/100 dilution, for 15 mins at room temperature, followed by ab207996, 1/500 dilution, for 15 mins at room temperature. Detection was via an HRP conjugated ABC system and DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

The inset negative control image is taken from an identical assay without primary antibody.

For other IHC staining systems (automated and non-automated) customers should optimize variable parameters such as antigen retrieval conditions, primary antibody concentration and antibody incubation times.

*\*Tissue obtained from the Human Research Tissue Bank, supported by the NIHR Cambridge Biomedical Research Centre*

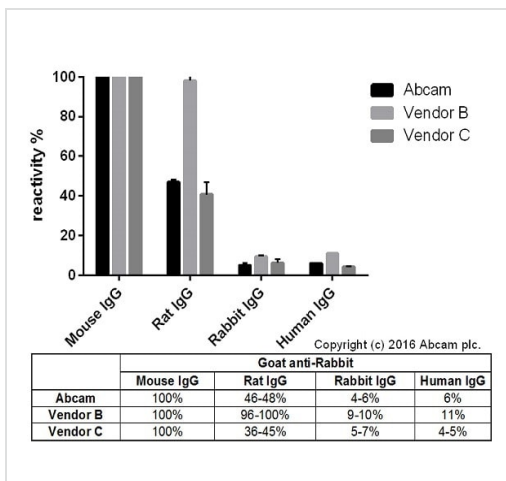


ELISA - Goat Anti-Mouse IgG H&L (Biotin)  
(ab207996)

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**).



ELISA - Goat Anti-Mouse IgG H&L (Biotin)  
(ab207996)

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**).

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