abcam

ab205719

Goat Anti-Mouse IgG H&L (HRP)

Goat anti-mouse IgG H&L (HRP) (ab205719) is a polyclonal horseradish peroxidase (HRP)-conjugated secondary antibody. Suitable for IHC, western blot, IP and ELISA applications.

- Flexible signal amplification- use in colorimetric or chemiluminescent detection
- Proven performance: cited in over 1690 publications

Key facts

Description	Goat Anti-Mouse IgG H&L (HRP)
Host species	Goat
Target species	Mouse
Target isotype	IgG
Target specificity	Heavy & Light chains
Conjugation	HRP
Applications	ELISA, IP, WB, IHC-P
Clonality	Polyclonal
Pre-adsorbed	No
Specificity	The antibody used for conjugation reacts with mouse immunoglobulins of all classes. Cross-reactions as determined by ELISA for the unconjugated antibody (ab182017): Chicken IgY, less than 2%. Human IgG, less than 6%. Rabbit IgG, less than 7%. Rat IgG, less than 47%.
Isotype	IgG
Concentration	2 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →

Reactivity data

Application	ELISA
Reactivity	Reacts
Dilution info	-
Notes	-

Application	IP
Reactivity	Reacts
Dilution info	-
Notes	-

Application	WB
Reactivity	Reacts
Dilution info	1/2000 - 1/20000
Notes	-

Application	IHC-P
Reactivity	Reacts
Dilution info	1/2000 - 1/20000
Notes	-

Properties

Form	Liquid
Storage buffer	pH: 7.4 Preservative: 0.1% Proclin 300 Solution Constituents: PBS, 30% Glycerol (glycerin, glycerine), 1% BSA
Purification technique	Affinity purification Immunogen
Purification notes	This antibody was isolated by affinity chromatography using antigen coupled to agarose beads and conjugated to Horse Radish Peroxidase (HRP).

Target data

See full target information Ighg1

Storage

Shipped at conditions	Blue Ice
Appropriate short-term storage duration	1-2 weeks
Appropriate short-term storage conditions	+4°C
Appropriate long-term storage conditions	-20°C
Aliquoting information	Upon delivery aliquot
Storage information	Avoid freeze / thaw cycle, Store in the dark

Notes

When it comes to advancing your immunohistochemistry (IHC) research, Abcam offers a comprehensive suite of IHC kits and secondary antibodies, designed to deliver precise and reliable results.

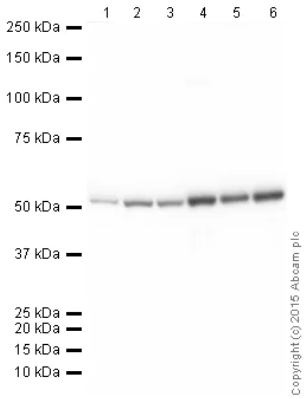
Product promise

We are dedicated to supporting your work with high quality reagents and we are here for you every step of the way should you need us.

In the unlikely event of one of our products not working as expected, you are covered by our product promise.

Full details and terms and conditions can be found here:
Terms & Conditions.

6 product images



Western blot - Goat Anti-Mouse IgG H&L (HRP) (ab205719)

This blot was produced using a 4-12% Bis-tris gel under the MOPS buffer system. The gel was run at 200V for 50 minutes before being transferred onto a Nitrocellulose membrane at 30V for 70 minutes. The membrane was then blocked for an hour using 2% Bovine Serum Albumin before being incubated with ab7291 overnight at 4°C. Antibody binding was detected using ab205719, and visualised using ECL development solution ab133406.
All lanes:
Western blot - Anti-alpha Tubulin antibody [DM1A] - Loading Control (ab7291) at 1 µg/mL

Lane 1:
Liver (Human) Tissue Lysate at 10 µg

Lane 2:
Liver (Mouse) Tissue Lysate at 10 µg

Lane 3:
Liver (Rat) Tissue Lysate at 10 µg

Lane 4:
HeLa (Human epithelial carcinoma cell line) Whole Cell Lysate at 10 µg

Lane 5:
NIH 3T3 (Mouse embryonic fibroblast cell line) Whole Cell Lysate at 10 µg

Lane 6:
PC12 (Rat adrenal pheochromocytoma cell line) Whole Cell Lysate at 10 µg

Secondary

All lanes:
Western blot - Goat Anti-Mouse IgG H&L (HRP) (ab205719) at 1/5000 dilution

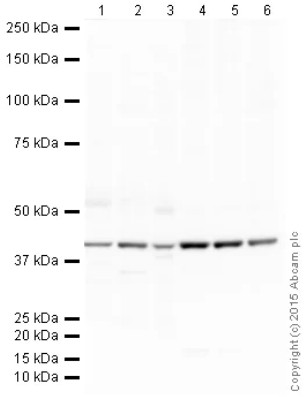
Developed using the ECL technique.

Performed under reducing conditions.

Predicted band size: 36 kDa

Observed band size: 52 kDa

Exposure time: 5s



Western blot - Goat Anti-Mouse IgG H&L (HRP) (ab205719)

This blot was produced using a 4-12% Bis-tris gel under the MOPS buffer system. The gel was run at 200V for 50 minutes before being transferred onto a Nitrocellulose membrane at 30V for 70 minutes. The membrane was then blocked for an hour using 2% Bovine Serum Albumin before being incubated with ab8226 overnight at 4°C. Antibody binding was detected using ab205719, and visualised using ECL development solution ab133406.
All lanes:
Western blot - Anti-beta Actin antibody [mAbcam 8226] - Loading Control (ab8226) at 1 µg/mL

Lane 1:
Liver (Human) Tissue Lysate at 10 µg

Lane 2:
Liver (Mouse) Tissue Lysate at 10 µg

Lane 3:
Liver (Rat) Tissue Lysate at 10 µg

Lane 4:
HeLa (Human epithelial carcinoma cell line) Whole Cell Lysate at 10 µg

Lane 5:
NIH 3T3 (Mouse embryonic fibroblast cell line) Whole Cell Lysate at 10 µg

Lane 6:
PC12 (Rat adrenal pheochromocytoma cell line) Whole Cell Lysate at 10 µg

Secondary

All lanes:
Western blot - Goat Anti-Mouse IgG H&L (HRP) (ab205719) at 1/5000 dilution

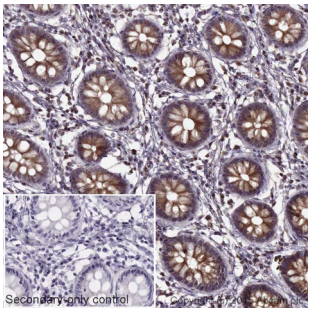
Developed using the ECL technique.

Performed under reducing conditions.

Predicted band size: 36 kDa

Observed band size: 42 kDa

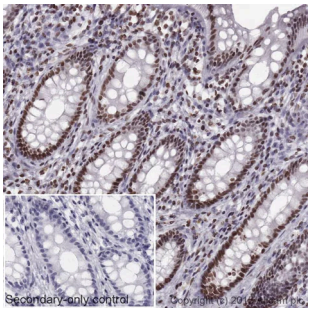
Exposure time: 10s



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Goat Anti-Mouse IgG H&L (HRP) (ab205719)

IHC image of alpha tubulin staining in a section of formalin-fixed paraffin-embedded normal human colon tissue*. The section was pre-treated using pressure cooker heat mediated antigen retrieval with sodium citrate buffer (pH6) for 30mins, and incubated overnight at +4°C with ab7291 at 1/1000 dilution. An HRP-conjugated secondary (ab205719, 1/10000 dilution) was used to detect the primary for 1hr at room temperature. DAB was used as the chromogen (ab103723), diluted 1/100 and incubated for 10min at room temperature. The section was 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.

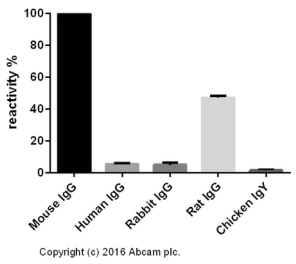
*Tissue obtained from the Human Research Tissue Bank, supported by the NIHR Cambridge Biomedical Research Centre



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Goat Anti-Mouse IgG H&L (HRP) (ab205719)

IHC image of histone H4 staining in a section of formalin-fixed paraffin-embedded normal human colon tissue*. The section was pre-treated using pressure cooker heat mediated antigen retrieval with sodium citrate buffer (pH6) for 30mins, and incubated overnight at +4°C with ab31830 at 1/1000 dilution. An HRP-conjugated secondary (ab205719, 1/10000 dilution) was used to detect the primary for 1hr at room temperature. DAB was used as the chromogen (ab103723), diluted 1/100 and incubated for 10min at room temperature. The section was 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

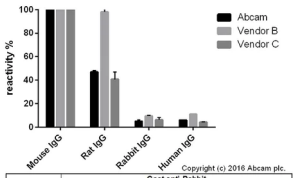


Sandwich ELISA - Goat Anti-Mouse IgG H&L (HRP) (ab205719)

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.

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 were 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%

Sandwich ELISA - Goat Anti-Mouse IgG H&L (HRP) (ab205719)

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.

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

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.