Product name: Goat Anti-Rabbit IgG H&L (HRP) ab205718

Host species: Goat

Target species: Rabbit

Specificity: The antibody used for conjugation reacts with rabbit immunoglobulins of all classes. Cross-reactions as determined by ELISA for the unconjugated antibody (ab182016): Mouse IgG, rat IgG, and chicken IgY, less than 2%. Human IgG, less than 7%.

Tested applications: Suitable for: IHC-P, WB, ELISA, IP

Immunogen: The details of the immunogen for this antibody are not available.

Conjugation: HRP

Properties:

Form: Liquid

Storage instructions: Shipped at 4°C. Store at +4°C.

Storage buffer: pH: 7.4
Preservative: 0.1% Proclin
Constituents: PBS, 1% BSA, 30% Glycerol

Purity: Immunogen affinity purified

Purification notes: This antibody was isolated by affinity chromatography using antigen coupled to agarose beads and conjugated to Horse Radish Peroxidase (HRP).

Clonality: Polyclonal

Isotype: IgG

Applications:

Our Abpromise guarantee covers the use of ab205718 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

<table>
<thead>
<tr>
<th>Application</th>
<th>Abreviews</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>IHC-P</td>
<td></td>
<td>1/2000 - 1/50000.</td>
</tr>
</tbody>
</table>
Western blot - Goat Anti-Rabbit IgG H&L (HRP) (ab205718)

All lanes : Anti-beta Actin antibody (ab8227) at 1 µg/ml

Lane 1 : Liver (Human) Tissue Lysate
Lane 2 : Liver (Mouse) Tissue Lysate
Lane 3 : Liver (Rat) Tissue Lysate
Lane 4 : HeLa (Human epithelial carcinoma cell line) Whole Cell Lysate
Lane 5 : NIH 3T3 (Mouse embryonic fibroblast cell line) Whole Cell Lysate
Lane 6 : PC12 (Rat adrenal pheochromocytoma cell line) Whole Cell Lysate

Lysates/proteins at 10 µg per lane.

Secondary

All lanes : Goat Anti-Rabbit IgG H&L (HRP) (ab205718) at 1/50000 dilution

Developed using the ECL technique.

Performed under reducing conditions.

Observed band size: 42 kDa

why is the actual band size different from the predicted?

Exposure time: 30 seconds

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 ab8227 overnight at
4°C. Antibody binding was detected using ab205718, and visualised using ECL development solution ab133406.

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 ab177840 at 1/1000 dilution. An HRP-conjugated secondary (Ab205718, 1/20000 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

**All lanes**: Anti-beta Actin antibody (ab8227) at 1 µg/ml

Lane 1: Liver (Mouse) Tissue Lysate

Lane 2: Liver (Rat) Tissue Lysate

Lysates/proteins at 10 µg per lane.

**Secondary**

**All lanes**: ab205718 (Left Image) at 1/20,000 and a competitor secondary (Right Image) at 1/50,000. Notice the increased background of the competitor product.

Performed under reducing conditions.

**Observed band size**: 42 kDa why is the actual band size different from the predicted?

**Exposure time**: 5 seconds

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 ab8227 overnight at 4°C. Antibody binding was detected using ab205718 (Left Image) and a competitor secondary (Right Image), and visualised using ECL development solution ab133406.

All lanes : No Primary Antibody

Lane 1 : Liver (Human) Tissue Lysate
Lane 2 : Liver (Mouse) Tissue Lysate
Lane 3 : Liver (Rat) Tissue Lysate
Lane 4 : HeLa (Human epithelial carcinoma cell line) Whole Cell Lysate
Lane 5 : NIH 3T3 (Mouse embryonic fibroblast cell line) Whole Cell Lysate
Lane 6 : PC12 (Rat adrenal pheochromocytoma cell line) Whole Cell Lysate

Lysates/proteins at 10 µg per lane.

Secondary

All lanes : Goat Anti-Rabbit IgG H&L (HRP) (ab205718) at 1/50000 dilution

Performed under reducing conditions.

Exposure time: 20 minutes

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 incubated overnight with 2% Bovine Serum Albumin at 4°C. Any non-specific background binding was assessed by incubating the membrane with only the secondary antibody (ab205718), and visualised using ECL development solution ab133406.
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Goat Anti-Rabbit IgG H&L (HRP) (ab205718)

IHC image of beta 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 ab6046 at 1/100 dilution. An HRP-conjugated secondary (Ab205718, 1/20000 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.

Western blot - Goat Anti-Rabbit IgG H&L (HRP) (ab205718)

** ab205718 **

** Competitor **

<table>
<thead>
<tr>
<th>250 kDa</th>
<th>250 kDa</th>
</tr>
</thead>
<tbody>
<tr>
<td>150 kDa</td>
<td>150 kDa</td>
</tr>
<tr>
<td>100 kDa</td>
<td>100 kDa</td>
</tr>
<tr>
<td>75 kDa</td>
<td>75 kDa</td>
</tr>
<tr>
<td>50 kDa</td>
<td>50 kDa</td>
</tr>
<tr>
<td>37 kDa</td>
<td>37 kDa</td>
</tr>
<tr>
<td>25 kDa</td>
<td>25 kDa</td>
</tr>
<tr>
<td>20 kDa</td>
<td>20 kDa</td>
</tr>
<tr>
<td>15 kDa</td>
<td>15 kDa</td>
</tr>
<tr>
<td>10 kDa</td>
<td>10 kDa</td>
</tr>
</tbody>
</table>

All lanes : No Primary Antibody

Lane 1 : Liver (Mouse) Tissue Lysate
Lane 2 : Liver (Rat) Tissue Lysate

Lysates/proteins at 10 µg per lane.

Secondary

All lanes : ab205718 (Left Image) 1/50,000 and a competitor secondary (Right Image) 1/50,000. Notice the increased background of the competitor product.

Exposure time : 20 minutes

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 incubated overnight with 2% Bovine Serum Albumin at 4°C. Any non-specific background binding was assessed by incubating the membrane with ab205718 (Left
All lanes: Anti-STAT3 antibody [EPR787Y] (ab68153) at 1/2000 dilution

Lane 1: A431 (Human epithelial carcinoma cell line) Whole Cell Lysate
Lane 2: Heart (Mouse) Tissue Lysate
Lane 3: Heart (Rat) Tissue Lysate

Lysates/proteins at 10 µg per lane.

Secondary
All lanes: Goat Anti-Rabbit IgG H&L (HRP) (ab205718) at 1/2000 dilution

Developed using the ECL technique.

Performed under reducing conditions.

**Observed band size:** 88 kDa why is the actual band size different from the predicted?

**Exposure time:** 20 minutes

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 3% milk before being incubated with ab68153 overnight at 4°C. Antibody binding was detected using ab205718, and visualised using ECL development solution ab133406.
IHC image of Ki67 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 ab15580 at 1/1000 dilution. An HRP-conjugated secondary (Ab205718, 1/20000 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

Please note: All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE"

Our Abpromise to you: Quality guaranteed and expert technical support

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit https://www.abcam.com/abpromise or contact our technical team.

Terms and conditions

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors