Product datasheet

Donkey Anti-Rabbit IgG H&L (Alexa Fluor® 405) ab175651

Overview

Product name: Donkey Anti-Rabbit IgG H&L (Alexa Fluor® 405)
Host species: Donkey
Target species: Rabbit
Specificity: This antibody is specific to Rabbit IgG
Tested applications: Suitable for: IHC-Fr, Flow Cyt, IHC-P, ELISA, ICC/IF
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. Upon delivery aliquot. Store at -20°C. Avoid freeze / thaw cycle. Please see notes section. Store in the Dark.
Storage buffer: Preservative: 0.02% Sodium azide
Constituents: 30% Glycerol, PBS, 1% BSA
Purity: Immunogen affinity purified
Clonality: Polyclonal
Isotype: IgG
General notes: We recommend storage time at 4°C should be minimal, since this may affect the signal strength.

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Applications

Our Abpromise guarantee covers the use of ab175651 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

<table>
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<th>Application</th>
<th>Abreviews</th>
<th>Notes</th>
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<tr>
<td>IHC-Fr</td>
<td>Use at an assay dependent concentration.</td>
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<tr>
<td>IHC-P</td>
<td>Use at an assay dependent concentration.</td>
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<tr>
<td>ELISA</td>
<td>Use at an assay dependent concentration.</td>
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<tr>
<td>ICC/IF</td>
<td>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</td>
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Images

Section of adult murine femur was stained with rabbit anti-fibronectin (ab23750) and detected with donkey anti-rabbit AlexaFluor405 (ab175651) - shown in green. Counterstain shows CD31+ blood vessels and cells (red) and Sca1+ arterioles and cells (blue).
Immunocytochemistry/Immunofluorescence -
Donkey Anti-Rabbit IgG H&L (Alexa Fluor® 405) (ab175651)

ICC/IF image of ab6046 stained HeLa cells. The cells were 4% formaldehyde fixed (10 min), permeabilized with 0.1% Triton X-100 for 5 minutes, blocked with Image-iT® FX Signal Enhancer at room temperature for 30 min and then incubated in 1% BSA / 10% normal donkey 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 (ab6046, 1µg/ml) overnight at +4°C. The secondary antibody (blue) was ab175651 Alexa Fluor® 405 donkey anti-rabbit IgG (H+L) used at 2µg/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.

Cross-reactivity of the polyclonal secondary antibody ab182020 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. ab182020 was then added starting at 1 µg/ml and gradually diluted 1/4 (50 µl/well), followed by incubation for 2h. For the detection Goat anti-Donkey IgG H&L (HRP) (ab6988) was used at 1/20,000 dilution (50 µl/well), followed by incubation for 1h at RT.

For the batch tested, ab182020 showed a cross-reactivity below 2% towards human IgG, mouse IgG, rat IgG, goat IgG and chicken IgY.

This data was developed using the unconjugated antibody (ab182020).
Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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