Product datasheet

Anti-Dlx5 antibody [EPR4488] ab109737

Recombinant RabMAb

Overview

Product name Anti-Dlx5 antibody [EPR4488]
Description Rabbit monoclonal [EPR4488] to Dlx5
Host species Rabbit
Tested applications Suitable for: ICC/IF, WB, IHC-P
Species reactivity Reacts with: Mouse, Rat, Human
Immunogen Synthetic peptide within Human Dlx5 aa 150-250. The exact sequence is proprietary.
Positive control WB: C6, RAW264.7, PC12, and HeLa whole cell lysate (ab150035). IHC-P: Human brain tissue.
General notes

This product is a recombinant monoclonal antibody, which offers several advantages including:
- High batch-to-batch consistency and reproducibility
- Improved sensitivity and specificity
- Long-term security of supply
- Animal-free production
For more information see here.

Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb® patents.

We are constantly working hard to ensure we provide our customers with best in class antibodies. As a result of this work we are pleased to now offer this antibody in purified format. We are in the process of updating our datasheets. The purified format is designated 'PUR' on our product labels. If you have any questions regarding this update, please contact our Scientific Support team.

Reproducibility is key to advancing scientific discovery and accelerating scientists’ next breakthrough.

Abcam is leading the way with our range of recombinant antibodies, knockout-validated antibodies and knockout cell lines, all of which support improved reproducibility.

We are also planning to innovate the way in which we present recommended applications and species on our product datasheets, so that only applications & species that have been tested in our own labs, our suppliers or by selected trusted collaborators are covered by our Abpromise™ guarantee.
In preparation for this, we have started to update the applications & species that this product is Abpromise guaranteed for.

We are also updating the applications & species that this product has been "predicted to work with," however this information is not covered by our Abpromise guarantee.

Applications & species from publications and Abreviews that have not been tested in our own labs or in those of our suppliers are not covered by the Abpromise guarantee.

Please check that this product meets your needs before purchasing. If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, as well as customer reviews and Q&As.

### Properties

<table>
<thead>
<tr>
<th>Form</th>
<th>Liquid</th>
</tr>
</thead>
<tbody>
<tr>
<td>Storage instructions</td>
<td>Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C. Avoid freeze / thaw cycle.</td>
</tr>
<tr>
<td>Storage buffer</td>
<td>pH: 7.20, Preservative: 0.01% Sodium azide, Constituents: 40% Glycerol, 59% PBS, 0.05% BSA</td>
</tr>
<tr>
<td>Purity</td>
<td>Protein A purified</td>
</tr>
<tr>
<td>Clonality</td>
<td>Monoclonal</td>
</tr>
<tr>
<td>Clone number</td>
<td>EPR4488</td>
</tr>
<tr>
<td>Isotype</td>
<td>IgG</td>
</tr>
</tbody>
</table>

### Applications

Our Abpromise guarantee covers the use of ab109737 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>ICC/IF</td>
<td>1/1000. For unpurified use at 1/50 - 1/100.</td>
<td></td>
</tr>
<tr>
<td>IHC-P</td>
<td>1/1000. Perform heat mediated antigen retrieval via the pressure cooker method before commencing with IHC staining protocol. For unpurified use at 1/100 - 1/250. See IHC antigen retrieval protocols. Antigen retrieval recommended; heat up to 98°C, below boiling, and then let cool for 10-20 min.</td>
<td></td>
</tr>
</tbody>
</table>

### Target
**Cellular localization**

**Nuclear**

**Images**

**Lanes 1-2**: Anti-Dlx5 antibody [EPR4488] (ab109737) at 1/5000 dilution (purified)

**Lane 3**: Anti-Dlx5 antibody [EPR4488] (ab109737) at 1/10000 dilution (purified)

**Lane 1**: C6 cell lysate

**Lane 2**: RAW264.7 cell lysate

**Lane 3**: PC-12 cell lysate

Lysates/proteins at 20 µg per lane.

**Secondary**

**All lanes**: Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/10000 dilution (Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated)

**Predicted band size**: 32 kDa

Blocking buffer and concentration: 5% NFDM/TBST.

Diluting buffer and concentration: 5% NFDM/TBST.

**All lanes**: Anti-Dlx5 antibody [EPR4488] (ab109737) at 1/5000 dilution (purified)

**Lane 1**: HeLa cell lysate

**Lane 2**: U87-MG cell lysate

Lysates/proteins at 20 µg per lane.

**Secondary**

**All lanes**: Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/10000 dilution (Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated)

**Predicted band size**: 32 kDa

Blocking buffer and concentration: 5% NFDM/TBST.
Diluting buffer and concentration: 5% NFDM/TBST.

**All lanes**: Anti-Dlx5 antibody [EPR4488] (ab109737) at 1/1000 dilution (unpurified)

- **Lane 1**: C6 cell lysate
- **Lane 2**: RAW264.7 cell lysate
- **Lane 3**: PC12 cell lysate
- **Lane 4**: HeLa cell lysates

Lysates/proteins at 10 µg per lane.

**Predicted band size**: 32 kDa

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human astrocytoma tissue labelling Dlx5 with purified ab109737 at 1/1000. Heat mediated antigen retrieval was performed using Tris/EDTA buffer pH 9. **ab97051**, a goat anti-rabbit IgG H&L (HRP) was used as the secondary antibody (1/500). Negative control using PBS instead of primary antibody. Counterstained with hematoxylin.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of Human brain tissue labelling Dlx5 with unpurified ab109737 at 1/100.

Perform heat mediated antigen retrieval via the pressure cooker method before commencing with IHC staining protocol.
Immunocytochemistry/Immunofluorescence analysis of C6 (rat glioma) cells labelling Dlx5 with purified ab109737 at 1/1000. Cells were fixed with 4% paraformaldehyde and permeabilized with 0.1% Triton X-100. ab150077, an Alexa Fluor® 488-conjugated goat anti-rabbit IgG (1/500) was used as the secondary antibody. DAPI (blue) was used as the nuclear counterstain. ab7291, a mouse anti-tubulin (1/1000) and ab150120, an Alexa Fluor® 594-conjugated goat anti-mouse IgG (1/1000) were also used.

Control 1: primary antibody (1/100) and secondary antibody, ab150120, an Alexa Fluor® 594-conjugated goat anti-mouse IgG (1/500).

Control 2: ab7291 (1/1000) and secondary antibody, ab150077, an Alexa Fluor® 488-conjugated goat anti-rabbit IgG (1/500).

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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- 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

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