Product datasheet

Anti-EB3 antibody [EPR11421(B)] ab157217

Overview

Product name
Anti-EB3 antibody [EPR11421(B)]

Description
Rabbit monoclonal [EPR11421(B)] to EB3

Host species
Rabbit

Tested applications
Suitable for: Flow Cyt, WB, IHC-P, ICC/IF
Unsuitable for: IP

Species reactivity
Reacts with: Mouse, Rat, Human

Immunogen
Synthetic peptide within Human EB3. The exact sequence is proprietary.

Positive control

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.

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

Form
- Liquid

Storage instructions
- Shipped at 4°C. Store at -20°C.

Storage buffer
- pH: 7.2
- Preservative: 0.01% Sodium azide
- Constituents: 9% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA, 50% Tissue culture supernatant

Purity
- Tissue culture supernatant

Clonality
- Monoclonal

Clone number
- EPR11421(B)

Isotype
- IgG

Applications

Our Abpromise guarantee covers the use of ab157217 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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<tr>
<th>Application</th>
<th>Abreviews</th>
<th>Notes</th>
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<td>Flow Cyt</td>
<td></td>
<td>Use at an assay dependent concentration.</td>
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<tr>
<td>IHC-P</td>
<td></td>
<td>1/250 - 1/500. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.</td>
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<tr>
<td>ICC/IF</td>
<td></td>
<td>1/250 - 1/500.</td>
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Application notes
- Is unsuitable for IP.

Target

Function
- May be involved in microtubule polymerization, and spindle function by stabilizing microtubules and anchoring them at centrosomes. May play a role in cell migration.

Tissue specificity
- Predominantly expressed in brain and muscle.

Sequence similarities
- Belongs to the MAPRE family.
- Contains 1 CH (calponin-homology) domain.
- Contains 1 EB1 C-terminal domain.

Domain
- Composed of two functionally independent domains. The N-terminal domain forms an
hydrophobic cleft involved in microtubule binding and the C-terminal is involved in the formation of mutually exclusive complexes with APC and DCTN1.

**Cellular localization**

Cytoplasm > cytoskeleton. Associated with the microtubule network.

**Images**

**Western blot - Anti-EB3 antibody [EPR11421(B)] (ab157217)**

*All lanes*: Anti-EB3 antibody [EPR11421(B)] (ab157217) at 1/10000 dilution

*Lane 1*: Human cerebellum lysate

*Lane 2*: Human fetal brain lysate

*Lane 3*: Rat muscle lysate

Lysates/proteins at 10 µg per lane.

**Predicted band size**: 32 kDa

**Immunocytochemistry/Immunofluorescence analysis of SH-SY5Y (Human neuroblastoma cell line from bone marrow) cells labeling EB3 with purified ab157217 at a dilution of 1/500. Cells were fixed with 4% paraformaldehyde and permeabilized with 0.1% Triton X-100. ab150077, an Alexa Fluor® 488-conjugated goat anti-rabbit IgG (1/1000) was used as the secondary antibody. Nuclei counterstained with DAPI (blue).

Control: PBS only.
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-EB3 antibody [EPR11421(B)] (ab157217)

Immunohistochemical analysis of paraffin embedded human skeletal muscle tissue labeling EB3 with ab157217 at 1/250. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.

Flow Cytometry - Anti-EB3 antibody [EPR11421(B)] (ab157217)

Flow Cytometry analysis of U87-MG (human glioblastoma) cells labeling EB3 with unpurified ab157217 at 1/20 dilution (10 µg/ml) (red). Cells were fixed with 4% paraformaldehyde and permeabilized with 90% methanol. A Goat anti rabbit IgG (Alexa Fluor® 488)(1/2000 dilution) was used as the secondary antibody. Rabbit monoclonal IgG (Black) was used as the isotype control, cells without incubation with primary antibody and secondary antibody (Blue) were used as the unlabeled control.
Immunohistochemical analysis of paraffin embedded human brain tissue labeling EB3 with ab157217 at 1/250.

Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.

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

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