Product datasheet

Anti-Ephrin B2 antibody ab131536

3 Abreviews 8 References 10 Images

Overview

Product name Anti-Ephrin B2 antibody
Description Rabbit polyclonal to Ephrin B2
Host species Rabbit
Tested applications Suitable for: WB, ICC/IF, Flow Cyt, IHC-P
Species reactivity Reacts with: Mouse, Rat, Human
Immunogen Synthetic peptide corresponding to Human Ephrin B2 aa 328-332 conjugated to keyhole limpet haemocyanin.
Sequence: N-I-Y-Y-K
Database link: P52799
Positive control HeLa cells; HT29 cell extract

Properties

Form Liquid
Storage instructions Shipped at 4°C. Store at -20°C. Stable for 12 months at -20°C.
Storage buffer pH: 7.40
Preservative: 0.02% Sodium azide
Constituents: 49% PBS, 50% Glycerol, 0.88% Sodium chloride
Note: PBS without Mg²⁺ and Ca²⁺
Purity Immunogen affinity purified
Clonality Polyclonal
Isotype IgG

Applications

Our Abpromise guarantee covers the use of ab131536 in the following tested applications.
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.
Function
Cell surface transmembrane ligand for Eph receptors, a family of receptor tyrosine kinases which are crucial for migration, repulsion and adhesion during neuronal, vascular and epithelial development. Binds promiscuously Eph receptors residing on adjacent cells, leading to contact-dependent bidirectional signaling into neighboring cells. The signaling pathway downstream of the receptor is referred to as forward signaling while the signaling pathway downstream of the ephrin ligand is referred to as reverse signaling. Binds to receptor tyrosine kinase including EPHA4, EPHA3 and EPHB4. Together with EPHB4 plays a central role in heart morphogenesis and angiogenesis through regulation of cell adhesion and cell migration. EPHB4-mediated forward signaling controls cellular repulsion and segregation from EFNB2-expressing cells. May play a role in constraining the orientation of longitudinally projecting axons. (Microbial infection) Acts as a receptor for Hendra virus and Nipah virus.

Tissue specificity
Lung and kidney.

Sequence similarities
Belongs to the ephrin family.
Contains 1 ephrin RBD (ephrin receptor-binding) domain.

Post-translational modifications
Inducible phosphorylation of tyrosine residues in the cytoplasmic domain.

Cellular localization
Membrane.

Target

Images
ab131536 staining Ephrin B2 in formalin-fixed, paraffin embedded rat C6 cells. Samples were incubated with primary antibody at 1/75 dilution. A Goat anti-rabbit IgG H&L (1/50) was used as the secondary antibody.

<table>
<thead>
<tr>
<th>Application</th>
<th>Abreviews</th>
<th>Notes</th>
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<tbody>
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<td>WB</td>
<td>1/500 - 1/1000. Predicted molecular weight: 36 kDa.</td>
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IHC-P
1/100 - 1/200. Perform heat mediated antigen retrieval before commencing with IHC staining protocol.
Immunohistochemical analysis of rat kidney tissue sections at 1/100 dilution. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue was then blocked and incubated with the antibody for 1.5 hours at 22°C. A HRP-conjugated goat anti-rabbit antibody was used as the secondary.

Immunohistochemical analysis of mouse kidney tissue sections at 1/100. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue was then blocked and incubated with the antibody for 1.5 hours at 22°C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.

Anti-Ephrin B2 antibody (ab131536) at 1/500 dilution + HT29 cell extract

**Predicted band size:** 36 kDa
Immunohistochemical analysis of Human renal clear cell carcinoma tissue sections labeling Ephrin B2 with ab131536 at 1/200. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue was then blocked and incubated with the antibody for 1.5 hours at 22°C. A HRP-conjugated Goat Anti-Rabbit antibody was used as the secondary.

ab131536 staining Ephrin B2 in formalin-fixed, paraffin embedded HeLa cells by ICC/IF (Immunocytochemistry/Immunofluorescence). Samples were incubated with primary antibody at 1/75 dilution. A Goat anti-rabbit IgG H&L (1/50 dilution) was used as the secondary antibody.

Immunofluorescence analysis of methanol-fixed HeLa cells labelling Ephrin B2 with ab131536 at 1/100 dilution.
Immunohistochemical analysis of Human meningeal carcinomatosis (MS) tissue sections labeling Ephrin B2 with ab131536 at 1/200. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue was then blocked and incubated with the antibody for 1.5 hours at 22°C. A HRP-conjugated Goat Anti-Rabbit antibody was used as the secondary.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Ephrin B2 antibody (ab131536)

**Immunohistochemical analysis**

- **Tissue:** Human meningeal carcinomatosis (MS) tissue sections
- **Antibody:** Anti-Ephrin B2 antibody (ab131536)
- **Dilution:** 1/200
- **Fixation:** Formaldehyde
- **Antigen Retrieval:** Heat mediated in citrate buffer
- **Blocking:** Yes
- **Incubation:** 1.5 hours at 22°C
- **Secondary Antibody:** HRP-conjugated Goat Anti-Rabbit

Western blot - Anti-Ephrin B2 antibody (ab131536)

**Western blot analysis**

- **Antibody:** Anti-Ephrin B2 antibody (ab131536)
- **Dilution:** 1/1000
- **Lanes:**
  - **Lane 1:** Rat spleen tissue lysate
  - **Lane 2:** Mouse liver tissue lysate
  - **Lane 3:** Peptide blocked mouse liver tissue lysate

- **Lysates/proteins:** 40 µg per lane
- **Predicted band size:** 36 kDa
- **Observed band size:** 37 kDa

**Why is the actual band size different from the predicted?**

Immunocytochemistry/Immunofluorescence - Anti-Ephrin B2 antibody (ab131536)

**Immunocytochemistry/Immunofluorescence analysis**

- **Cells:** TM 3 cells
- **Antibody:** Anti-Ephrin B2 antibody (ab131536)
- **Dilution:** 1/75
- **Secondary Antibody:** Cy3-conjugated goat anti-rabbit IgG (H+L)
- **Dilution:** 1/50

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