Product datasheet

Anti-Ephrin B2 antibody ab75868

Overview

Product name: Anti-Ephrin B2 antibody
Description: Rabbit polyclonal to Ephrin B2
Host species: Rabbit
Tested applications: Suitable for: WB
Species reactivity: Reacts with: Mouse, Rat, Human
Immunogen: Synthetic non-phosphopeptide derived from human Ephrin B2 around the phosphorylation site of tyrosine 316 (P-V-Y^P-I-V).
Positive control: HUVEC cells treated with Insulin or EGF.

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: 50% Glycerol, 0.87% Sodium chloride, PBS
Without Mg2+ and Ca2+
Purity: Immunogen affinity purified
Clonality: Polyclonal
Isotype: IgG

Applications

Our Abpromise guarantee covers the use of ab75868 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>WB</td>
<td>1/500 - 1/1000. Detects a band of approximately 55 kDa (predicted molecular weight: 37 kDa).</td>
<td></td>
</tr>
</tbody>
</table>
**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.

---

**Images**

![Western blot - Anti-Ephrin B2 antibody (ab75868)](image)

**Western blot**

- **All lanes**: Anti-Ephrin B2 antibody (ab75868) at 1/500 dilution
- **Lane 1**: HUVEC cells, untreated with immunising peptide
- **Lane 2**: HUVEC cells, treated with EGF
- **Lane 3**: HUVEC cells, treated with Insulin

**Predicted band size**: 37 kDa

**Observed band size**: 55 kDa

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

N.B. Actual band runs higher than predicted due to glycosylation.

---

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

**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