## Overview

<table>
<thead>
<tr>
<th><strong>Product name</strong></th>
<th>Anti-Eph receptor B1 + Eph receptor B2 (phospho Y594 + Y604) antibody</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Description</strong></td>
<td>Rabbit polyclonal to Eph receptor B1 + Eph receptor B2 (phospho Y594 + Y604)</td>
</tr>
<tr>
<td><strong>Host species</strong></td>
<td>Rabbit</td>
</tr>
<tr>
<td><strong>Specificity</strong></td>
<td>ab61791 detects endogenous levels of EPHB1/2 only when phosphorylated at tyrosine 594 and tyrosine 604.</td>
</tr>
<tr>
<td><strong>Tested applications</strong></td>
<td>Suitable for: WB, ICC/IF, ELISA</td>
</tr>
<tr>
<td><strong>Species reactivity</strong></td>
<td>Reacts with: Human</td>
</tr>
<tr>
<td></td>
<td>Predicted to work with: Mouse, Rat</td>
</tr>
<tr>
<td><strong>Immunogen</strong></td>
<td>Synthetic peptide corresponding to Human Eph receptor B1 + Eph receptor B2.</td>
</tr>
<tr>
<td><strong>Positive control</strong></td>
<td>Extracts from HepG2 cells, HuvEc cells.</td>
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</tbody>
</table>

## Properties

<table>
<thead>
<tr>
<th><strong>Form</strong></th>
<th>Liquid</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Storage instructions</strong></td>
<td>Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.</td>
</tr>
<tr>
<td><strong>Storage buffer</strong></td>
<td>pH: 7.40</td>
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<tr>
<td></td>
<td>Preservative: 0.02% Sodium azide</td>
</tr>
<tr>
<td></td>
<td>Constituents: PBS, 50% Glycerol, 0.87% Sodium chloride</td>
</tr>
<tr>
<td><strong>Purity</strong></td>
<td>Immunogen affinity purified</td>
</tr>
<tr>
<td><strong>Purification notes</strong></td>
<td>The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific phosphopeptide. The antibody against non-phosphopeptide was removed by chromatography using non-phosphopeptide corresponding to the phosphorylation site.</td>
</tr>
<tr>
<td><strong>Clonality</strong></td>
<td>Polyclonal</td>
</tr>
<tr>
<td><strong>Isotype</strong></td>
<td>IgG</td>
</tr>
</tbody>
</table>

## Applications

Our Abpromise guarantee covers the use of **ab61791** in the following tested applications.
Ephrin receptors bind members of the ephrin ligand family. They are divided into 2 groups based on the similarity of their extracellular domain sequences and their affinities for binding ephrin-A and ephrin-B ligands. They make up the largest subgroup of the receptor tyrosine kinase (RTK) family. Eph receptor B1 (EphB1) and Eph receptor B2 (EphB2) are receptors for ephrin-B family members. Developing and adult neural tissue express nearly all of the Ephrin receptors and ephrin ligands. Ephrins and ephrin receptors also play a significant role in angiogenesis. EphB2 acts as a tumor suppressor.

**Cellular localization**
Membrane; Single-pass type I membrane protein.

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**Target**

**Relevance**
Ephrin receptors bind members of the ephrin ligand family. They are divided into 2 groups based on the similarity of their extracellular domain sequences and their affinities for binding ephrin-A and ephrin-B ligands. They make up the largest subgroup of the receptor tyrosine kinase (RTK) family. Eph receptor B1 (EphB1) and Eph receptor B2 (EphB2) are receptors for ephrin-B family members. Developing and adult neural tissue express nearly all of the Ephrin receptors and ephrin ligands. Ephrins and ephrin receptors also play a significant role in angiogenesis. EphB2 acts as a tumor suppressor.

**Cellular localization**
Membrane; Single-pass type I membrane protein.

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**Images**

**Western blot** - Anti-Eph receptor B1 + Eph receptor B2 (phospho Y594 + Y604) antibody (ab61791)

- **All lanes**: Anti-Eph receptor B1 + Eph receptor B2 (phospho Y594 + Y604) antibody (ab61791) at 1/1000 dilution
- **Lane 1**: HeLa whole cell lysate
- **Lane 2**: HeLa whole cell lysate - overexpressing EphB2
- **Lane 3**: HeLa whole cell lysate - overexpressing EphB2-kinase dead (K661R)

Lysates/proteins at 100000 cells per lane.

**Secondary**

**All lanes**: HRP-conjugated goat anti-rabbit IgG monoclonal at 1/5000 dilution

Developed using the ECL technique.

Performed under reducing conditions.

**Predicted band size**: 110 kDa

**Observed band size**: 110 kDa
Exposure time: 5 minutes

All cells were stimulated with preclustered ephrinb1-Fc chimeric protein.

ab61791 staining Eph receptor B1 + Eph receptor B2 (phospho Y594) in HeLa cells (overexpressing EphB2 and stimulated for 20 minutes with preclustered efnb1-Fc chimeric protein) by ICC/IF (Immunocytochemistry/Immunofluorescence). Cells were fixed with paraformaldehyde, permeabilized with 0.1% Triton X-100 and blocked with 1% BSA for 30 minutes at 25°C. Samples were incubated with primary antibody (1/100 in PBS + 1% BSA + 0.1% Triton X-100) for 2 hour at 25°C. An Alexa Fluor® 488-conjugated donkey anti-rabbit IgG polyclonal (1/300) was used as the secondary antibody. Red - anti-EphB2 (goat), Grey - DAPI, Green - ab61791.

All lanes: Anti-Eph receptor B1 + Eph receptor B2 (phospho Y594 + Y604) antibody (ab61791) at 1/500 dilution

Lane 1: Extracts from HepG2 cells
Lane 2: Extracts from HepG2 cells with the immunising phosphopeptide

Predicted band size: 110 kDa
Observed band size: 110 kDa
Immunofluorescence analysis of HuvEc cells, using ab61791 at 1/500-1/1000 dilution with (+) or without (-) immunising phosphopeptide.

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

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