

## Product datasheet

### Anti-EPH A3+A4+A5 (phospho Y779 + Y779 + Y833) antibody [EPR5684] ab124881

Recombinant RabMAb

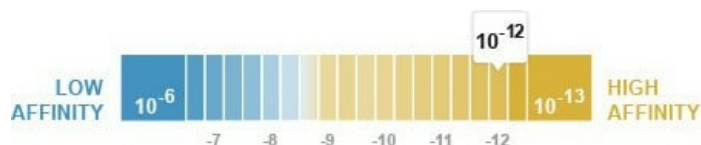
★★★★★ [2 Abreviews](#) [1 References](#) [4 Images](#)

#### Overview

<b>Product name</b>	Anti-EPH A3+A4+A5 (phospho Y779 + Y779 + Y833) antibody [EPR5684]
<b>Description</b>	Rabbit monoclonal [EPR5684] to EPH A3+A4+A5 (phospho Y779 + Y779 + Y833)
<b>Host species</b>	Rabbit
<b>Specificity</b>	This antibody only detects EPH A3 phosphorylated at Tyrosine 779, EPH A4 phosphorylated at Tyrosine 779, and EPH A5 phosphorylated at Tyrosine 833.
<b>Tested applications</b>	<b>Suitable for:</b> WB <b>Unsuitable for:</b> ICC/IF or IHC-P
<b>Species reactivity</b>	<b>Reacts with:</b> Mouse, Rat, Human
<b>Immunogen</b>	Synthetic peptide within Human EPH A3+A4+A5 (phospho Y779 + Y779 + Y833). The exact sequence is proprietary. P29320, P54756, P54764.
<b>Positive control</b>	HeLa whole cell lysate ( <a href="#">ab150035</a> ) (untreated/treated with Sodium Orthovanadate). Prepare 500mM stock Sodium Orthovanadate in PBS. When ready to treat cells add 400µl 500mM Sodium Orthovanadate to 1560µl H2O and then 40µl H2O2, vortex and incubate at RT for 5-10min. Serum-starve cells overnight, and treat with the freshly made Pervanadate for 20min at 37°C.
<b>General notes</b>	<p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none"> <li>- High batch-to-batch consistency and reproducibility</li> <li>- Improved sensitivity and specificity</li> <li>- Long-term security of supply</li> <li>- Animal-free production</li> </ul> <p>For more information <a href="#">see here</a>.</p> <p>Our RabMAb<sup>®</sup> technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to <a href="#">RabMAb<sup>®</sup> patents</a>.</p>

#### Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Store at -20°C. Stable for 12 months at -20°C.
<b>Dissociation constant (K<sub>D</sub>)</b>	K <sub>D</sub> = 1.30 x 10 <sup>-12</sup> M



[Learn more about K<sub>D</sub>](#)

<b>Storage buffer</b>	pH: 7.20 Preservative: 0.01% Sodium azide Constituents: 40% Glycerol, 0.05% BSA, 59% PBS
<b>Purity</b>	Protein A purified
<b>Clonality</b>	Monoclonal
<b>Clone number</b>	EPR5684
<b>Isotype</b>	IgG

## Applications

**The Abpromise guarantee** Our **Abpromise guarantee** covers the use of ab124881 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
<b>WB</b>	★★★★★ (1)	1/10000. Detects a band of approximately 133 kDa (predicted molecular weight: 110, 115 kDa). <b>For unpurified, use 1/1000 - 1/10000.</b>

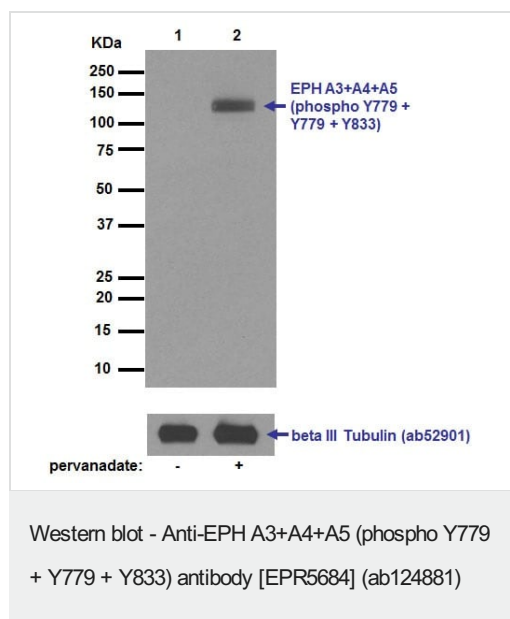
**Application notes** Is unsuitable for ICC/IF or IHC-P.

## Target

**Relevance** Receptor tyrosine kinase which binds promiscuously GPI-anchored ephrin-A family ligands 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. Among GPI-anchored ephrin-A ligands, EFNA5 most probably constitutes the cognate/functional ligand for EPHA5. Functions as an axon guidance molecule during development and may be involved in the development of the retinotectal, entorhino-hippocampal and hippocamposeptal pathways. Together with EFNA5 plays also a role in synaptic plasticity in adult brain through regulation of synaptogenesis. Beside its function in the nervous system, the interaction of EPHA5 with EFNA5 mediates communication between pancreatic islet cells to regulate glucose-stimulated insulin secretion.

**Cellular localization** Cell Membrane

## Images



**All lanes :** Anti-EPH A3+A4+A5 (phospho Y779 + Y779 + Y833) antibody [EPR5684] (ab124881) at 1/10000 dilution (purified)

**Lane 1 :** Untreated HEK293 cell lysate

**Lane 2 :** HEK293 cell lysate treated with pervanadate

Lysates/proteins at 10 µg per lane.

### Secondary

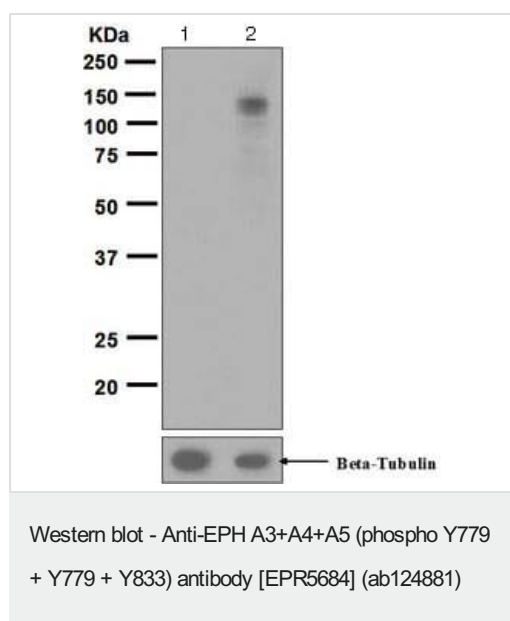
**All lanes :** HRP goat anti-rabbit (H+L) at 1/1000 dilution

**Predicted band size:** 110, 115 kDa

**Observed band size:** 133 kDa

Blocking buffer: 5% NFDM/TBST

Dilution buffer: 5% NFDM/TBST



**All lanes :** Anti-EPH A3+A4+A5 (phospho Y779 + Y779 + Y833) antibody [EPR5684] (ab124881) at 1/1000 dilution (unpurified)

**Lane 1 :** HeLa cell lysate untreated

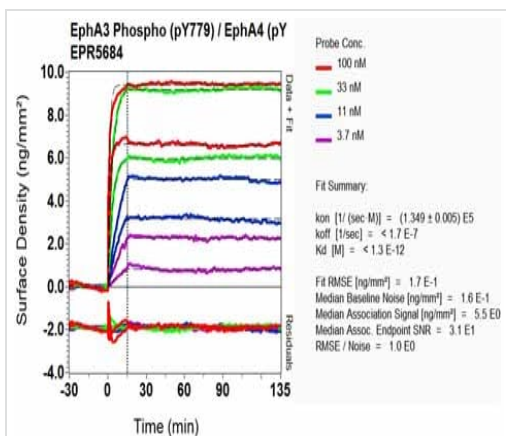
**Lane 2 :** HeLa cell lysate treated with Sodium Orthovanadate. See suggested positive control for more treatment information.

Lysates/proteins at 10 µg per lane.

### Secondary

**All lanes :** HRP labelled goat anti-rabbit at 1/2000 dilution

**Predicted band size:** 110, 115 kDa



Equilibrium dissociation constant ( $K_D$ )

Learn more about  $K_D$

[Click here to learn more about  \$K\_D\$](#)

SPR Scanning - Anti-EPH A3+A4+A5 (phospho  
Y779 + Y779 + Y833) antibody [EPR5684]  
(ab124881)

Why choose a  
recombinant antibody?



**Research with  
confidence**  
Consistent and  
reproducible results



**Long-term and  
scalable supply**  
Recombinant  
technology



**Success from the  
first experiment**  
Confirmed  
specificity



**Ethical standards  
compliant**  
Animal-free  
production

Anti-EPH A3+A4+A5 (phospho Y779 + Y779 +  
Y833) antibody [EPR5684] (ab124881)

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

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