Datasheet for ABIN7180167

# anti-EPH Receptor B2 antibody (C-Term)

1 Image

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## Overview

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|---|---|
| Quantity: | 100 µL |
| Target: | EPH Receptor B2 (EPHB2) |
| Binding Specificity: | C-Term |
| Reactivity: | Human |
| Host: | Rabbit |
| Clonality: | Polyclonal |
| Conjugate: | This EPH Receptor B2 antibody is un-conjugated |
| Application: | Western Blotting (WB), ELISA |

## Product Details

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| Immunogen: | Synthesized peptide derived from C-terminal of Human EPHB2. |
| Isotype: | IgG |
| Cross-Reactivity: | Human |
| Purification: | The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen. |

## Target Details

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| Target: | EPH Receptor B2 (EPHB2) |
| Alternative Name: | EPHB2 (EPHB2 Products) |
| Background: | Background: Receptor tyrosine kinase which binds promiscuously transmembrane ephrin-B |

## Target Details

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| | 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. Functions in axon guidance during development. Involved in the guidance of commissural axons, that form a major interhemispheric connection between the 2 temporal lobes of the cerebral cortex. Also involved in guidance of contralateral inner ear efferent growth cones at the midline and of retinal ganglion cell axons to the optic disk. Beside axon guidance, also regulates dendritic spines development and maturation and stimulates the formation of excitatory synapses. Upon activation by EFNB1, abolishes the ARHGEF15-mediated negative regulation on excitatory synapse formation. Controls other aspects of development including angiogenesis, palate development and in inner ear development through regulation of endolymph production. Forward and reverse signaling through the EFNB2/EPHB2 complex regulate movement and adhesion of cells that tubularize the urethra and septate the cloaca. May function as a tumor suppressor.<br><br>Kiyokawa E., Cancer Res. 54:3645-3650(1994).<br>Ikegaki N., Hum. Mol. Genet. 4:2033-2045(1995).<br>Tang X.X., Oncogene 17:521-526(1998).<br>Aliases: cek5 antibody, Developmentally regulated EPH related tyrosine kinase antibody, DRT antibody, EK5 antibody, ELK related protein tyrosine kinase antibody, Eph receptor B2 antibody, EPH tyrosine kinase 3 antibody, EPH-like kinase 5 antibody, EPHB2 antibody, EPHB2_HUMAN antibody, Ephrin type B receptor 2 antibody, Ephrin type-B receptor 2 antibody, EPHT 3 antibody, ERK antibody, ETECK antibody, hEK5 antibody, Nuk antibody, Prkm 5 antibody, Receptor protein tyrosine kinase HEK 5 antibody, Renal carcinoma antigen NY-REN-47 antibody, Sek 3 antibody, Tyro 5 antibody, Tyrosine protein kinase receptor CEK 5 antibody, Tyrosine protein kinase receptor EPH 3 antibody, Tyrosine protein kinase receptor QEK 5 antibody, Tyrosine-protein kinase receptor EPH-3 antibody, Tyrosine-protein kinase TYRO5 antibody |
| UniProt: | P29323 |
| Pathways: | RTK Signaling, Regulation of long-term Neuronal Synaptic Plasticity, S100 Proteins |

## Application Details

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| Application Notes: | WB:1:500-1:3000, |
| Restrictions: | For Research Use only |

## Handling

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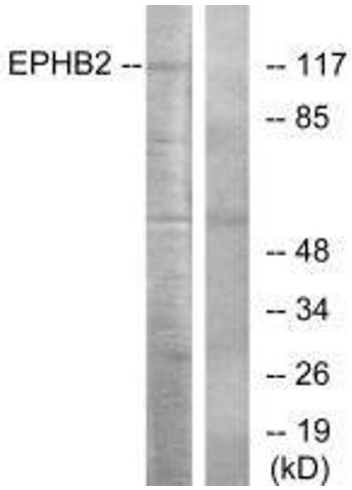
| Format: | Liquid |
| Buffer: | Rabbit IgG in phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150 mM NaCl, 0.02 % sodium azide and 50 % glycerol. |
| Preservative: | Sodium azide |
| Precaution of Use: | This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only. |
| Storage: | -20 °C,-80 °C |
| Storage Comment: | Upon receipt, store at -20°C or -80°C. Avoid repeated freeze. |

## Images




**Western Blotting**

**Image 1.** Western blot analysis of extracts from Jurkat cells, using EPHB2 antibody.