Datasheet for ABIN391928

# anti-EPH Receptor B6 antibody (C-Term)

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## Overview

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| Quantity: | 400 µL |
| Target: | EPH Receptor B6 (EPHB6) |
| Binding Specificity: | AA 990-1021, C-Term |
| Reactivity: | Human |
| Host: | Rabbit |
| Clonality: | Polyclonal |
| Conjugate: | This EPH Receptor B6 antibody is un-conjugated |
| Application: | Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)) |

## Product Details

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| Immunogen: | This EphB6 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 990-1021 amino acids from the C-terminal region of human EphB6. |
| Clone: | RB1666 |
| Isotype: | Ig Fraction |
| Purification: | This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS. |

## Target Details

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| Target: | EPH Receptor B6 (EPHB6) |
| Alternative Name: | EphB6 (EPHB6 Products) |

## Target Details

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| Background: | Ephrin receptors and their ligands, the ephrins, mediate numerous developmental processes, particularly in the nervous system. Based on their structures and sequence relationships, ephrins are divided into the ephrin-A (EFNA) class, which are anchored to the membrane by a glycosylphosphatidylinositol linkage, and the ephrin-B (EFNB) class, which are transmembrane proteins. The Eph family of receptors 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. Ephrin receptors make up the largest subgroup of the receptor tyrosine kinase (RTK) family. EphB6 lacks the kinase activity of most receptor tyrosine kinases and binds to ephrin-B ligands. |
| Molecular Weight: | 110700 |
| Gene ID: | 2051 |
| NCBI Accession: | NP_001267723, NP_001267724, NP_004436 |
| UniProt: | O15197 |
| Pathways: | RTK Signaling, Hormone Transport |

## Application Details

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| Application Notes: | WB: 1:1000. IHC-P: 1:50~100 |
| Restrictions: | For Research Use only |

## Handling

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| Format: | Liquid |
| Buffer: | Purified polyclonal antibody supplied in PBS with 0.09 % (W/V) sodium azide. |
| 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: | 4 °C,-20 °C |
| Storage Comment: | Maintain refrigerated at 2-8 °C for up to 6 months. For long term storage store at -20 °C in small aliquots to prevent freeze-thaw cycles. |
| Expiry Date: | 6 months |

## Publications

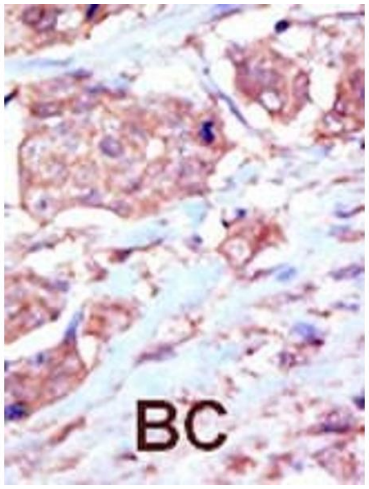
Product cited in:

Gu, Li, Qian, Chen, Wang, Wang: "Expression of EphB6 in ovarian serous carcinoma is associated with grade, TNM stage and survival." in: **Journal of clinical pathology**, (2015) ( PubMed).

Brantley-Sieders, Jiang, Sarma, Badu-Nkansah, Walter, Shyr, Chen: "Eph/ephrin profiling in human breast cancer reveals significant associations between expression level and clinical outcome." in: **PLoS ONE**, Vol. 6, Issue 9, pp. e24426, (2011) (PubMed).

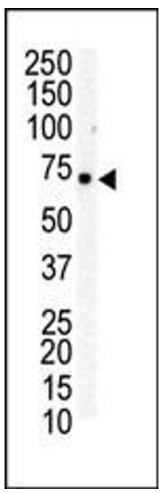
Yu, Bulk, Ji, Hascher, Tang, Metzger, Marra, Serve, Berdel, Wiewroth, Koschmieder, Müller-Tidow: "The EPHB6 receptor tyrosine kinase is a metastasis suppressor that is frequently silenced by promoter DNA hypermethylation in non-small cell lung cancer." in: **Clinical cancer research : an official journal of the American Association for Cancer Research**, Vol. 16, Issue 8, pp. 2275-83, (2010) (PubMed).

## Images




**Immunohistochemistry (Paraffin-embedded Sections)**

**Image 1.** Formalin-fixed and paraffin-embedded human cancer tissue reacted with the primary antibody, which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry, clinical relevance has not been evaluated. BC = breast carcinoma, HC = hepatocarcinoma.




**Western Blotting**

**Image 2.** Western blot analysis of anti-EphB6 C-term Pab (ABIN391928 and ABIN2841738) in Jurkat cell lysate. EphB6 (arrow) was detected using purified Pab. Secondary HRP-anti-rabbit was used for signal visualization with chemiluminescence.