Anti-Phospho-Tyr\textsuperscript{298} Ephrin B Antibody

Catalog #: p1110-298  Size: 100 µl

Cite this Antibody: PhosphoSolutions Cat# p1110-298, RRID:AB_2492086

**Host** Rabbit  **Applications** WB: 1:1000  **Species Tested** H, R  **Species Reactivity\(^\ast\)** B, C, Ch, M, NHP, X, Z  **Molecular Weight** ~46 kDa

**Product Description:** Affinity purified rabbit polyclonal antibody.

**Biological Significance:** EphrinB proteins are thought to play key roles in cellular functions as diverse as neuronal migration and blood vessel development (Flanagan and Vancerhaeghen, 1998; Dufour et al., 2003; Oike et al., 2002). EphrinB molecules expressed at the membrane surface bind to the EphB family receptors on target cells during cell-to-cell contact. This interaction leads to cell signaling in the target cell but also generates a reverse signal in the cell expressing EphrinB on its surface. This reverse signaling event is thought to be critical for vessel maturation and neuronal development. Importantly, tyrosine phosphorylation of EphrinB is thought to be a critical component of this reverse signaling event (Palmer et al., 2002). Recent work suggests that phosphorylation of a specific EphrinB residue (Tyr\textsuperscript{298}) plays a key role in EphrinB signaling (Kalo, et al., 2001).

**Antigen:** Phosphopeptide corresponding to amino acid residues surrounding the phospho Tyr\textsuperscript{298} of Xenopus EphrinB. Note: Xenopus Tyr\textsuperscript{298} is the homolog of human, mouse and rat Tyr\textsuperscript{317} and also chicken Tyr\textsuperscript{305}.

**Antibody Specificity:** Specific for endogenous levels of the ~46 kDa EphrinB protein phosphorylated at Tyr\textsuperscript{298}. Immunolabeling is completely eliminated by treatment with \(\lambda\)-Ptase.

**Purification Method:** Prepared from pooled rabbit serum by affinity purification via sequential chromatography on phospho and non-phosphopeptide affinity columns.

**Quality Control Tests:** Western blots performed on each lot.

**Packaging:** 100 µl in 10 mM HEPES (pH 7.5), 150 mM NaCl, 100 µg BSA per ml and 50% glycerol.

**Storage and Stability:** Shipped on blue ice. Storage at -20°C is recommended, as aliquots may be taken without freeze/thawing due to presence of 50% glycerol. Stable for at least 1 year at -20°C.

For Research Use Only

*Species assumed based on 100% homology with sequence used as antigen

**Application Key:** WB = Western Blot  IF = Immunofluorescence  IHC = Immunohistochemistry  IP = Immunoprecipitation

**Species Reactivity Key:** All-All Species  A-Avian  Amp-Amphibian  Ar-Arabidopsis  B-Bovine  C-Canine  Ch-Chicken  D-Drosophila  G-Goat  GP-Guinea Pig  H-Human  Ha-Hamster  M-Mouse  NHP-Non-human primate  P-Pig  R-Rat  S-Sheep  X-Xenopus  Z-Zebrafish

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General References:


