

Phospho-Tyr317 EphrinB Antibody
Affinity purified rabbit polyclonal antibody
Catalog # AN1086

Specification

Phospho-Tyr317 EphrinB Antibody - Product Information

Application	WB
Primary Accession	P28693
Reactivity	Rat
Predicted	Bovine, Chicken, Human, Mouse, Xenopus, Zebrafish
Host	Rabbit
Clonality	polyclonal
Calculated MW	46 KDa

Phospho-Tyr317 EphrinB Antibody - Additional Information

Gene ID	396513
Gene Name	EPHB2
Other Names	
Ephrin type-B receptor 2, EPH-like kinase 5, EK5, cEK5, EPHB2, CEK5	

Target/Specificity

Synthetic phospho-peptide corresponding to amino acid residues surrounding Tyr317 conjugated to KLH.

Dilution

WB~~ 1:1000

Format

Prepared from rabbit serum by affinity purification via sequential chromatography on phospho- and dephosphopeptide affinity columns.

Antibody Specificity

Specific for the ~46k EphrinB protein phosphorylated at Tyr317. The immunolabeling of the EphrinB band is blocked by treatment with λ -phosphatase.

Storage

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.

Precautions

Phospho-Tyr317 EphrinB Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Shipping

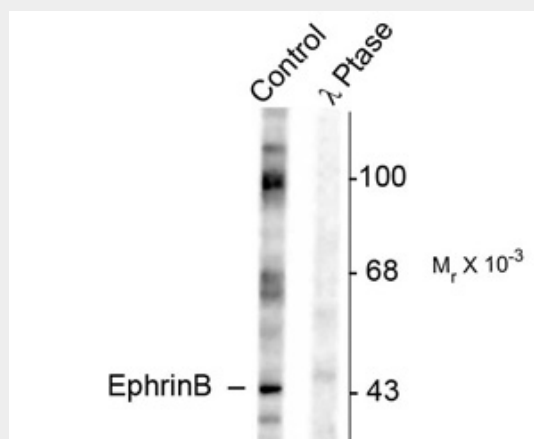
Blue Ice

Phospho-Tyr317 EphrinB Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Phospho-Tyr317 EphrinB Antibody - Images



Western blot of rat testes lysate showing specific immunolabeling of the ~46k EphrinB phosphorylated at Tyr317 (Control). The phosphospecificity of this labeling is shown in the second lane (lambda-phosphatase: λ-Ptase). The blot is identical to the control except that it was incubated in λ-Ptase (1200 units for 30 min) before being exposed to the Anti-Tyr317 EphrinB. The immunolabeling of the EphrinB is completely eliminated by treatment with λ-Ptase.

Phospho-Tyr317 EphrinB Antibody - Background

EphrinB proteins are thought to play key roles in cellular functions as diverse as neuronal migration and blood vessel development (Flanagan and Vanderhaeghen, 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 (Tyr298) plays a key role in EphrinB signaling (Kalo, et al., 2001).

Phospho-Tyr317 EphrinB Antibody - References

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Dufour, A., Seibt, J., Passante, L., Depaepe, V., Ciossek, T., Frisen, J., Kullander, K., Flanagan, J.G., Polleux, F. and Vanderhaeghen, P. Area specificity and topography of thalamocortical projections are controlled by

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genes, Neuron 39:453-465 (2003).
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Palmer, A., Zimmer, M., Erdmann, K.S., Eulenburg, V., Porthin, A., Heumann, R., Deutsch, U. and Klein, R Ephrin B phosphorylation and reverse signaling: regulation by Src kinases and PTP-BL Phosphatase, Mol Cell 9:725-737 (2002).
Weirong Xing, Jonghyun Kim, Jon Wergedal, Shin-Tai Chen, and Subburaman Mohan (2010) Ephrin B1 Regulates Bone Marrow Stromal Cell Differentiation and Bone Formation by Influencing TAZ Transactivation via Complex Formation with NHERF1. Mol. Cell. Biol., 30: 711 - 721.