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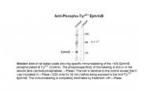
HIGH PERFORMANCE ANTIBODIES ... AND MORE

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EphrinB (phospho Tyr331) Antibody

CATALOG NUMBER: 50-224



Western blot of rat testes lysate showing specific immunolabeling of the ~46k EphrinB phosphorylated at Tyr331 (Control). The phosphospecificity of this labeling is shown in the second lane (lambda-phosphatase: lamda-Ptase). The blot is identical to the control except that it was incubated in lamda-Ptase (1200 units for 30 min) before being exposed to the Anti-Tyr331 EphrinB. The immunolabeling is

Specifications	
SPECIES REACTIVITY:	Bovine, Chicken, Human, Mouse, Rat, Xenopus, Zebrafish
TESTED APPLICATIONS:	WB
APPLICATIONS:	The antibody has been directly tested for reactivity in Western blots with rat tissue. It is anticipated that the antibody will react with bovine, chicken, human, mouse, Xenopus and zebra fish based on the fact that these species have 100% homology with the amino acid sequence used as antigen.
USER NOTE:	Optimal dilutions for each application to be determined by the researcher.
PREDICTED MOLECULAR WEIGHT:	46
IMMUNOGEN:	Phosphopeptide corresponding to amino acid residues surrounding the phospho-Tyr331 of chicken EphrinB. Note: Chicken Tyr331 is the homolog of mouse and rat Tyr343, human Tyr344 and also Xenopus Tyr324.
HOST SPECIES:	Rabbit
Proportios	

PURIFICATION: Affinity Purified	
PHYSICAL STATE: Liquid	
BUFFER: 100 uL in 10 mM HEPES (pH 7.5), 150 mM NaCl, 100 ug per mL BSA and 50% glycerol.	
STORAGE CONDITIONS: EphrinB antibody can be stored at -20°C and is stable at -20°C for at least 1 year.	
CLONALITY: Polyclonal	
CONJUGATE: Unconjugated	

EK5, EPH-like kinase 5, EK5 8693 230900 PHB2
8693 230900 HB2
230900 PHB2
PHB2
6513
hrinB proteins are thought to play key roles in cellular functions as diverse as neuronal migration and blood seel development (Flanagan and Vanderhaeghen, 1998; Dufour et al., 2003; Oike et al., 2002). EphrinB blecules expressed at the membrane surface bind to the EphB family receptors on target cells during cell-to ill contact. This interaction leads to cell signaling in the target cell but also generates a reverse signal in the cell pressing EphrinB on its surface. This reverse signaling event is thought to be critical for vessel maturation and uronal development. Importantly, tyrosine phosphorylation of EphrinB is thought to be a critical component of a reverse signaling event (Palmer et al., 2002). Recent work demonstrated that Tyr331 of EphrinB was osphorylated in HEK293 cells after stimulation by the soluble EphB2 receptor tyrosine kinase (Kalo et al., 201).
Bong, Y.S., Park, Y.H., Lee, H.S., Mood, K., Ishimura, A. and Daar, I.O. Tyr-298 in ephrinB1 is critical for an eraction with the Grb4 adaptor protein, Biochem. J. 377:499-507 (2004).
Dufour, A., Seibt, J., Passante, L., Depaepe, V., Ciossek, T., Frisen, J., Kullander, K., Flanagan, J.G., Polleux, and Vanderhaeghen, P. Area specificity and topography of thalamocortical projections are controlled by hrin/Eph genes, Neuron 39:453-465 (2003).
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FOR RESEARCH USE ONLY

December 13, 2016