Datasheet for ABIN361467

anti-EPH Receptor B2 antibody (pTyr317)

2 Images

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Overview

Quantity:	100 µL
Target:	EPH Receptor B2 (EPHB2)
Binding Specificity:	pTyr317
Reactivity:	Chicken
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This EPH Receptor B2 antibody is un-conjugated
Application:	Western Blotting (WB)

Product Details

Immunogen:	Synthetic phospho-peptide corresponding to amino acid residues surrounding Tyr317 conjugated to KLH
Specificity:	Specific for the ~46k EphrinB protein phosphorylated at Tyr317. The immunolabeling of the EphrinB band is blocked by treatment with (-phosphatase.
Cross-Reactivity:	Mouse (Murine), Rat (Rattus)
Predicted Reactivity:	bovine, chicken, human, mouse, Xenopus, zebra fish
Purification:	Antigen Affinity Purified from Pooled Serum

Target Details

Target:	EPH Receptor B2 (EPHB2)

Target Details

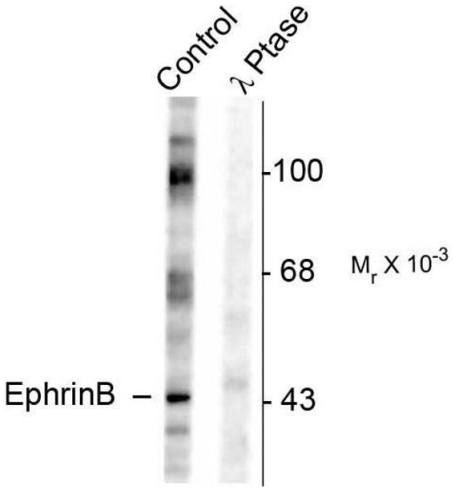
Alternative Name:	EPHB2 (EPHB2 Products)
Background:	EphrinB proteins are thought to play key roles in cellular functions as diverse as neuronal migration and blood vessel development (Flanagan and Vanderhaeghen, 1998, Dufour et al., 2003, Oike et al., 2002). EphrinB molecules expressed at the membrane 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). Anti-Phospho-Tyr317 EphrinB 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: (-Ptase). The blot is identical to the control except that it was incubated in (-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 (-Ptase.
Molecular Weight:	'46 kDa
Gene ID:	396513
UniProt:	P28693
Pathways:	RTK Signaling, Regulation of long-term Neuronal Synaptic Plasticity, S100 Proteins

Application Details

Application Notes:	Recommended Dilution: WB: 1:1000 Quality Control: Western blots performed on each lot.
Restrictions:	For Research Use only

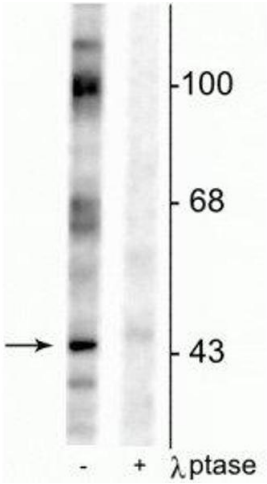
Handling

Format:	Liquid
Buffer:	100 µL in 10 mM HEPES (pH 7.5), 150 mM NaCl, 100 µg per ml BSA and 50 % glycerol.
Storage:	-20 °C



Western Blotting

Image 1. Western blots 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: (-Ptase). The blot is identical to the control except that it was incubated in (-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 (-Ptase.



Western Blotting

Image 2. Western blot of rat testes lysate showing specific immunolabeling of the ~46 kDa EphrinB phosphorylated at Tyr317 in the first lane (-). Phosphospecificity is shown in the second lane (+) where immunolabeling is completely eliminated by blot treatment with lambda phosphatase (λ-Ptase, 1200 units for 30 min).

