

## Polyclonal Antibody to Ephrin-B pTyr298 - Purified

<b>Catalog No.:</b>	AP05620PU-N
<b>Quantity:</b>	0.1 ml
<b>Background:</b>	Ephrin B is a 46 kDa member of the ephrin family, expressed on cell membranes and acts as a ligand for ephrin B family receptor tyrosine kinases. Ephrin B plays an important role in, directing thalamocortical axon growth specifically through intra-areal topographic mapping as well as controlling more regional, inter-areal growth. Ephrin B is also crucial to vasculogenesis, angiogenesis, and blood vessel maturation. Binding ephrin B family receptors on target cells causes bidirectional signalling, not only initiating signalling in the target cell but also causing a reverse signal in the ephrin B expressing cell.
<b>Host / Isotype:</b>	Rabbit / IgG
<b>Immunogen:</b>	Synthetic phosphotide corresponding to an amino acid sequence within Xenopus Ephrin B, which includes phosphorylated Tyr298. <b>Remarks:</b> Xenopus Tyr298 is the homolog of Human, Mouse and Rat Tyr317 and also Chicken Tyr305.
<b>Format:</b>	<b>State:</b> Liquid purified IgG fraction. <b>Purification:</b> Affinity Chromatography. <b>Buffer System:</b> 10mM Hepes pH 7.5 containing 0.09% Sodium Azide as preservative and 50% Glycerol, 0.01% BSA as stabilizers.
<b>Applications:</b>	<b>Western Blot:</b> 1/1000. Detects a band of approximately 46kDa in rat testes cell lysates. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
<b>Specificity:</b>	This antibody recognises Ephrin B phosphorylated at Tyrosine residue 298.
<b>Species Reactivity:</b>	<b>Tested:</b> Xenopus and Rat. <b>Expected from sequence similarity:</b> Zebrafish, Mouse, Canine (Dog), Primate, Human, Bovine and Chicken.
<b>Storage:</b>	Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing. Shelf life: one year from despatch.
<b>General Readings:</b>	1. Dufour A, Seibt J, Passante L, Depaepe V, Ciossek T, Frisén J, et al. Area specificity and topography of thalamocortical projections are controlled by ephrin/Eph genes. <i>Neuron</i> . 2003 Jul 31;39(3):453-65. PubMed PMID: 12895420. 2. Oike Y, Ito Y, Hamada K, Zhang XQ, Miyata K, Arai F, et al. Regulation of vasculogenesis and angiogenesis by EphB/ephrin-B2 signaling between endothelial cells and surrounding mesenchymal cells. <i>Blood</i> . 2002 Aug 15;100(4):1326-33. PubMed PMID: 12149214. 3. Palmer A, Zimmer M, Erdmann KS, Eulenburg V, Porthin A, Heumann R, et al. EphrinB phosphorylation and reverse signaling: regulation by Src kinases and PTP-BL phosphatase.

