

Polyclonal Antibody to Ephrin-B pTyr317 - Purified

Catalog No.:	AP05621PU-N
Quantity:	0.1 ml
Background:	Ephrin B is a 46 kDa member of the ephrin family, is 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.
Host / Isotype:	Rabbit / IgG
Immunogen:	Synthetic phosphotide corresponding to an amino acid sequence within chicken Ephrin B, which includes phosphorylated Tyr317.
Format:	State: Liquid purified IgG Buffer System: 10mM Hepes pH7.5 containing 0.09% Sodium Azide (NaN ₃), 50% Glycerol and 0.01% Bovine Serum Albumin
Applications:	Western Blot: 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.
Specificity:	This antibody recognises ephrin B, phosphorylated at tyrosine residue 317. Species: Chicken, Rat. Other species not tested.
Storage:	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.
Caution:	(A full Health and Safety assessment is available upon request) This product contains Sodium Azide: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.
General Readings:	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. <i>Mol Cell</i> . 2002 Apr;9(4):725-37. PubMed PMID: 11983165.