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AP05620PU-N OriGene EU

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Polyclonal Antibody to Ephrin-B pTyr298 - Purified

Catalog No.: AP05620PU-N

Quantity: 0.1 ml

Background: 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.

Host / Isotype: Rabbit / IgG

Immunogen: Synthetic phosphotide corresponding to an amino acid sequence within Xenopus Ephrin B,

which includes phosphorylated Tyr298.

Remarks: Xenopus Tyr298 is the homolog of Human, Mouse and Rat Tyr317 and also

Chicken Tyr305.

Format: State: Liquid purified IgG fraction.

Purification: Affinity Chromatography.

Buffer System: 10mM Hepes pH 7.5 containing 0.09% Sodium Azide as preservative and

50% Glycerol, 0.01% BSA as stabilizers.

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 298.

Species Reactivity: Tested: Xenopus and Rat.

Expected from sequence similarity: Zebrafish, Mouse, Canine (Dog), Primate, Human,

Bovine and Chicken.

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.

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. Neuron.

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. Blood. 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.

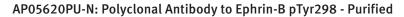
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Material Safety Datasheets are available at www.acris-antibodies.com or on request.

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Mol Cell. 2002 Apr;9(4):725-37. PubMed PMID: 11983165.