

# Ephrin-B1 (phospho Tyr317) Polyclonal Antibody

Catalog # AP67288

## Product Information

Application	WB
Primary Accession	<a href="#">P98172</a>
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	38007

## Additional Information

Gene ID	1947
Other Names	EFNB1; EFL3; EPLG2; LERK2; Ephrin-B1; EFL-3; ELK ligand; ELK-L; EPH-related receptor tyrosine kinase ligand 2; LERK-2
Dilution	WB~~Western Blot: 1/500 - 1/2000. ELISA: 1/20000. Not yet tested in other applications.
Format	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium azide.
Storage Conditions	-20°C

## Protein Information

Name	EFNB1
Synonyms	EFL3, EPLG2, LERK2
Function	Cell surface transmembrane ligand for Eph receptors, a family of receptor tyrosine kinases which are crucial for migration, repulsion and adhesion during neuronal, vascular and epithelial development (PubMed: <a href="#">7973638</a> , PubMed: <a href="#">8070404</a> ). Binding to Eph receptors residing on adjacent cells leads to contact-dependent bidirectional signaling into neighboring cells (PubMed: <a href="#">7973638</a> , PubMed: <a href="#">8070404</a> ). Shows high affinity for the receptor tyrosine kinase EPHB1/ELK (PubMed: <a href="#">7973638</a> , PubMed: <a href="#">8070404</a> ). Can also bind EPHB2 and EPHB3 (PubMed: <a href="#">8070404</a> ). Binds to, and induces collapse of, commissural axons/growth cones in vitro (By similarity). May play a role in constraining the orientation of longitudinally projecting axons (By similarity).
Cellular Location	Cell membrane; Single-pass type I membrane protein. Membrane raft. Note=May recruit GRIP1 and GRIP2 to membrane raft domains [Ephrin-B1 intracellular domain]; Nucleus. Note=Colocalizes with ZHX2 in the nucleus. {ECO:0000250 UniProtKB:P52795}

## Tissue Location

Widely expressed (PubMed:7973638, PubMed:8070404). Detected in both neuronal and non-neuronal tissues (PubMed:7973638, PubMed:8070404). Seems to have particularly strong expression in retina, sciatic nerve, heart and spinal cord (PubMed:7973638)

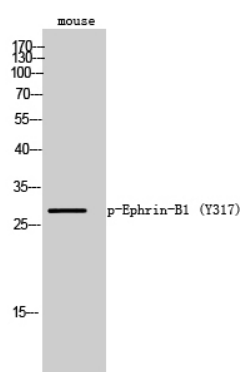
## Background

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Cell surface transmembrane ligand for Eph receptors, a family of receptor tyrosine kinases which are crucial for migration, repulsion and adhesion during neuronal, vascular and epithelial development (PubMed:[8070404](#), PubMed:[7973638](#)). Binding to Eph receptors residing on adjacent cells leads to contact-dependent bidirectional signaling into neighboring cells (PubMed:[8070404](#), PubMed:[7973638](#)). Shows high affinity for the receptor tyrosine kinase EPHB1/ELK (PubMed:[8070404](#), PubMed:[7973638](#)). Can also bind EPHB2 and EPHB3 (PubMed:[8070404](#)). Binds to, and induces collapse of, commissural axons/growth cones in vitro (By similarity). May play a role in constraining the orientation of longitudinally projecting axons (By similarity).

## Images

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Western Blot analysis of mouse cells using  
Phospho-Ephrin-B1 (Y317) Polyclonal Antibody

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