

Ephrin B1 (pY317) Antibody
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP51645**Specification**

Ephrin B1 (pY317) Antibody - Product Information

Application	WB, E
Primary Accession	P98172
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	45 KDa

Ephrin B1 (pY317) Antibody - Additional Information**Gene ID** 1947**Other Names**

Ephrin-B1, EFL-3, ELK ligand, ELK-L, EPH-related receptor tyrosine kinase ligand 2, LERK-2, EFNB1, EFL3, EPLG2, LERK2

Target/Specificity

KLH-conjugated synthetic peptide encompassing a sequence within the C-term region of human Ephrin B1. The exact sequence is proprietary.

Dilution

WB~~1:1000

E~~N/A

Format

0.01M PBS, pH 7.2, 0.09% (W/V) Sodium azide, Glycerol 50%

Storage

Store at -20 °C. Stable for 12 months from date of receipt

Ephrin B1 (pY317) Antibody - 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: [7973638](http://www.uniprot.org/citations/7973638), PubMed: [8070404](http://www.uniprot.org/citations/8070404)). Binding to Eph receptors residing on adjacent cells leads to contact-dependent bidirectional signaling into neighboring cells (PubMed: [8070404](#)).

[7973638](http://www.uniprot.org/citations/7973638), PubMed: [8070404](http://www.uniprot.org/citations/8070404)). Shows high affinity for the receptor tyrosine kinase EPHB1/ELK (PubMed: [7973638](http://www.uniprot.org/citations/7973638), PubMed: [8070404](http://www.uniprot.org/citations/8070404)). Can also bind EPHB2 and EPHB3 (PubMed: [8070404](http://www.uniprot.org/citations/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).

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)

Ephrin B1 (pY317) Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Ephrin B1 (pY317) Antibody - Images

Ephrin B1 (pY317) Antibody - Background

Binds to the receptor tyrosine kinases EPHB1 and EPHA1. Binds to, and induce the collapse of, commissural axons/growth cones in vitro. May play a role in constraining the orientation of longitudinally projecting axons (By similarity).

Ephrin B1 (pY317) Antibody - References

Beckmann M.P., et al. EMBO J. 13:3757-3762(1994).
Davis S., et al. Science 266:816-819(1994).
Fletcher F.A., et al. Submitted (JAN-1997) to the EMBL/GenBank/DDBJ databases.
Ross M.T., et al. Nature 434:325-337(2005).
Mural R.J., et al. Submitted (SEP-2005) to the EMBL/GenBank/DDBJ databases.