

**Ephrin-B1 Polyclonal Antibody**  
**Catalog # AP69777****Specification****Ephrin-B1 Polyclonal Antibody - Product Information**

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

**Ephrin-B1 Polyclonal Antibody - 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: 1/40000. 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

**Ephrin-B1 Polyclonal 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: [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

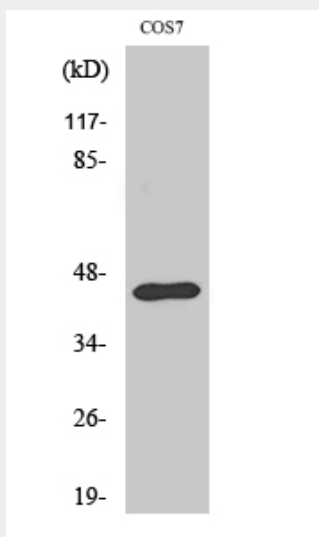
Widely expressed (PubMed:7973638, PubMed:8070404). Detected in both neuronal and non-neuronal tissues (PubMed:7973638, PubMed:8070404). Seems to have particularly strong expression in retina, sciatic nerve, heart and spinal cord (PubMed:7973638)

### Ephrin-B1 Polyclonal 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 Polyclonal Antibody - Images



Western Blot analysis of various cells using Ephrin-B1 Polyclonal Antibody

### Ephrin-B1 Polyclonal Antibody - Background

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(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).