

Ephrin-B1 Polyclonal Antibody

Catalog # AP69777

Specification

Ephrin-B1 Polyclonal Antibody - Product Information

Application Primary Accession Reactivity Host Clonality WB <u>P98172</u> Human, Mouse, Rat, Monkey Rabbit 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, PubMed:8070404). Binding to Eph receptors residing on adjacent cells leads to contact-dependent bidirectional signaling into neighboring cells (PubMed:7973638, PubMed:8070404). Shows high affinity for the receptor tyrosine kinase EPHB1/ELK (PubMed:7973638, PubMed:8070404). Shows high affinity for the receptor tyrosine kinase EPHB1/ELK (PubMed:8070404). Can also bind EPHB2 and EPHB3 (PubMed:8070404). Can also bind EPHB2 = blank">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.

- <u>Western Blot</u>
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- <u>Cell Culture</u>

Ephrin-B1 Polyclonal Antibody - Images



Ephrin-B1 Polyclonal Antibody - Background

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).