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Ephrin-B1 (phospho Tyr317) Polyclonal Antibody
Catalog # AP67288

Specification

Ephrin-B1 (phospho Tyr317) Polyclonal Antibody - Product Information

Application	**WB**
Primary Accession	P98172
Reactivity	**Human, Mouse, Rat**
Host	**Rabbit**
Clonality	**Polyclonal**

Ephrin-B1 (phospho Tyr317) 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: 1/20000. 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℃

Ephrin-B1 (phospho Tyr317) 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). 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).

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}

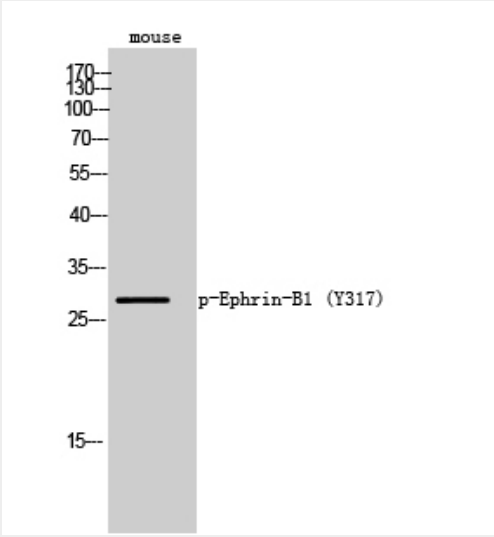
Tissue Location
Widely expressed (PubMed:7973638, PubMed:8070404). Detected in both neuronal and non-neuronal tissues (PubMed:7973638, PubMed:8070404). Seems to have particularly strong expression in retina, sciatic nerve, heart and spinal cord (PubMed:7973638)

Ephrin-B1 (phospho Tyr317) 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 Cytomety
- Cell Culture

Ephrin-B1 (phospho Tyr317) Polyclonal Antibody - Images



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

Ephrin-B1 (phospho Tyr317) 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).