

## **Ephrin B2 Antibody**

Rabbit mAb Catalog # AP91533

### **Specification**

## **Ephrin B2 Antibody - Product Information**

Application WB, ICC
Primary Accession P52799
Reactivity Rat

Clonality Monoclonal

**Other Names** 

Efnb2; ephrin B2; EPLG5; Htk L; HTK ligand; HTK-L; HTKL; LERK5;

Isotype Rabbit IgG
Host Rabbit
Calculated MW 36923 Da

# **Ephrin B2 Antibody - Additional Information**

Purification Affinity-chromatography

Immunogen A synthesized peptide derived from human

**Ephrin B2** 

Description 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. Binds promiscuously Eph receptors residing on

adjacent cells, leading to

contact-dependent bidirectional signaling

into neighboring cells.

Storage Condition and Buffer Rabbit IgG in phosphate buffered saline ,

pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid

freeze / thaw cycle.

# **Ephrin B2 Antibody - Protein Information**

Name EFNB2

Synonyms EPLG5, HTKL, LERK5

#### **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. Binds promiscuously Eph receptors residing on adjacent cells, leading to contact-dependent bidirectional signaling into neighboring cells. The signaling pathway downstream of the receptor is referred to as forward signaling while the signaling pathway



downstream of the ephrin ligand is referred to as reverse signaling. Binds to receptor tyrosine kinase including EPHA4, EPHA3 and EPHB4. Together with EPHB4 plays a central role in heart morphogenesis and angiogenesis through regulation of cell adhesion and cell migration. EPHB4-mediated forward signaling controls cellular repulsion and segregation from EFNB2-expressing cells. May play a role in constraining the orientation of longitudinally projecting axons.

#### **Cellular Location**

Cell membrane; Single-pass type I membrane protein. Cell junction, adherens junction {ECO:0000250|UniProtKB:P52800}

# **Tissue Location**

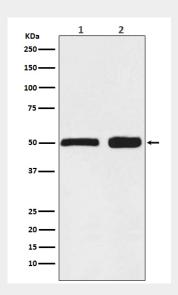
Lung and kidney.

# **Ephrin B2 Antibody - Protocols**

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

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

## **Ephrin B2 Antibody - Images**



Western blot analysis of Ephrin B2 expression in (1) HEK293 cell lysate; (2) Mouse spleen lysate.