SunLong Biotech Co.,LTD
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**[ Primary Antibody ]**

# Rabbit Anti-Ephrin-B2 antibody

**Catalog Number: SL10659R**

**FOR RESEARCH USE ONLY**

**[ DATASHEET ]**

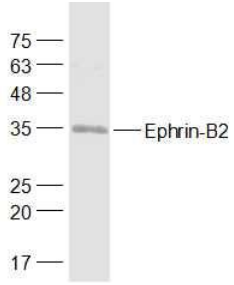
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| **Host:** | Rabbit |
| **Isotype:** | IgG |
| **Clonality:** | Polyclonal |
| **Target:** | Ephrin-B2 |
| **Immunogen:** | KLH conjugated synthetic peptide derived from human Ephrin-B2: 21-120/333 <Extracellular> |
| **Purification:** | affinity purified by Protein A |
| **Concentration:** | 1mg/ml |
| **Storage:** | 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4℃. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. |
| **Applications:** | WB=1:500-2000 （Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user. |
| **Reactivity:** | Rat(predicted:Human,Mouse) |
| **Predicted MW.:** | 34kDa |
| **Subcellular Location:** | The cell membrane |
| **Background:** | This gene encodes a member of the ephrin (EPH) family. The ephrins and EPH-related receptors comprise the largest subfamily of receptor protein-tyrosine kinases and have been implicated in mediating developmental events, especially in the nervous system and in erythropoiesis. Based on their structures and sequence relationships, ephrins are divided into the ephrin-A (EFNA) class, which are anchored to the membrane by a glycosylphosphatidylinositol linkage, and the ephrin-B (EFNB) class, which are transmembrane proteins. This gene encodes an EFNB class ephrin which binds to the EPHB4 and EPHA3 receptors. [provided by RefSeq, Jul 2008] **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 |

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| | 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.<br>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.<br>May play a role in constraining the orientation of longitudinally projecting axons.<br>**Subunit:** Interacts with PDZRN3. Binds to the receptor tyrosine kinases EPHA4, EPHB4 and EPHA3. Binds to Hendra virus and Nipah virus G protein.<br>**Subcellular Location:** Membrane; Single-pass type I membrane protein.<br>**Tissue Specificity:** Lung and kidney.<br>**Post-translational modifications:** Inducible phosphorylation of tyrosine residues in the cytoplasmic domain.<br>**Similarity:** Belongs to the ephrin family.<br>Contains 1 ephrin RBD (ephrin receptor-binding) domain.<br>**Database links:**<br>**Entrez Gene:** 1948 Human<br>**Entrez Gene:** 13642 Mouse<br>Omim: 600527 Human<br>**SwissProt:** P52799 Human<br>**SwissProt:** P52800 Mouse<br>**Unigene:** 149239 Human<br>**Unigene:** 209813 Mouse |

## [ VALIDATION IMAGES ]




Sample:
A549(Human) Cell Lysate at 30 ug
Primary: Anti-Ephrin-B2 (SL10659R) at 1/1000 dilution

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Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
Predicted band size: 34 kD
Observed band size: 34 kD

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