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[Marker Primary Antibody]

Rabbit Anti-Ephrin-B2/Biotin Conjugated antibody

Catalog Number: SL10659R-Bio

FOR RESEARCH USE ONLY

[DATASHEET]

Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	Anti-Ephrin-B2/Biotin
Immunogen:	KLH conjugated synthetic peptide derived from human Ephrin-B2
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 1M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
Applications:	WB=1:50-200 ELISA=1:100-1000 IHC-P=1:50-200 IHC-F=1:50-200 ICC=1:50-200 IF=1:50-200 not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	Rat(predicted:Human,Mouse)
Background:	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. 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. **Subunit:** Interacts with PDZRN3. Binds to the receptor tyrosine kinases EPHA4, EPHB4 and EPHA3. Binds to Hendra virus and Nipah virus G protein. **Subcellular Location:** Membrane; Single-pass type I membrane protein. **Tissue Specificity:** Lung and kidney. **Post-translational modifications:** Inducible phosphorylation of tyrosine residues in the cytoplasmic domain. **Similarity:** Belongs to the ephrin family. Contains 1 ephrin RBD (ephrin receptor-binding) domain. **Database links:** **Entrez Gene:** 1948 Human **Entrez Gene:** 13642 Mouse Omim: 600527 Human **SwissProt:** P52799 Human **SwissProt:** P52800 Mouse **Unigene:** 149239 Human **Unigene:** 209813 Mouse Important **Note:** This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.