

**EFNB2 Antibody (Center) Blocking peptide**  
**Synthetic peptide**  
**Catalog # BP11652c****Specification**

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**EFNB2 Antibody (Center) Blocking peptide - Product Information**Primary Accession [P52799](#)**EFNB2 Antibody (Center) Blocking peptide - Additional Information****Gene ID** 1948**Other Names**

Ephrin-B2, EPH-related receptor tyrosine kinase ligand 5, LERK-5, HTK ligand, HTK-L, EFNB2, EPLG5, HTKL, LERK5

**Format**

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

**Precautions**

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

**EFNB2 Antibody (Center) Blocking peptide - 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.

**EFNB2 Antibody (Center) Blocking peptide - Protocols**

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

- [Blocking Peptides](#)

**EFNB2 Antibody (Center) Blocking peptide - Images****EFNB2 Antibody (Center) Blocking peptide - 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.

**EFNB2 Antibody (Center) Blocking peptide - References**

Zhang, R., et al. Psychiatry Res 180(1):5-9(2010) Bochenek, M.L., et al. J. Cell. Sci. 123 (PT 8), 1235-1246 (2010) : Nakada, M., et al. Int. J. Cancer 126(5):1155-1165(2010) Qin, H., et al. J. Biol. Chem. 285(1):644-654(2010) Kwan Tat, S., et al. Arthritis Res. Ther. 11 (4), R119 (2009) :