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EFNB2 Antibody (Center) Blocking peptide

Synthetic peptide
Catalog # BP11652c

Specification

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}

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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. Theephrins and EPH-related receptors comprise the largest subfamily ofreceptor protein-tyrosine kinases and have been implicated inmediating developmental events, especially in the nervous systemand in erythropoiesis. Based on their structures and sequencerelationships, ephrins are divided into the ephrin-A (EFNA) class,which are anchored to the membrane by aglycosylphosphatidylinositol linkage, and the ephrin-B (EFNB)class, which are transmembrane proteins. This gene encodes an EFNBclass 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) :