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EFNB2 Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP11652C

Specification

EFNB2 Antibody (Center) - Product Information

Application	**IF, WB, IHC-P,E**
Primary Accession	P52799
Other Accession	NP_004084.1
Reactivity	**Human**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**36923**
Antigen Region	**157-186**

EFNB2 Antibody (Center) - 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

Target/Specificity
This EFNB2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 157-186 amino acids from the Central region of human EFNB2.

Dilution
IF~~1:10~50
WB~~1:1000
IHC-P~~1:10~50

Format
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage
Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
EFNB2 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

EFNB2 Antibody (Center) - 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}

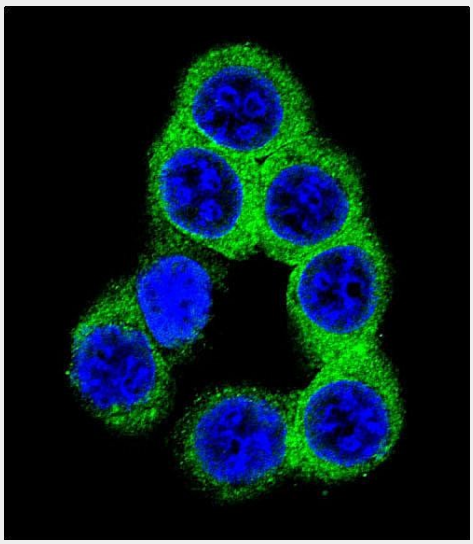
Tissue Location
Lung and kidney.

EFNB2 Antibody (Center) - Protocols

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

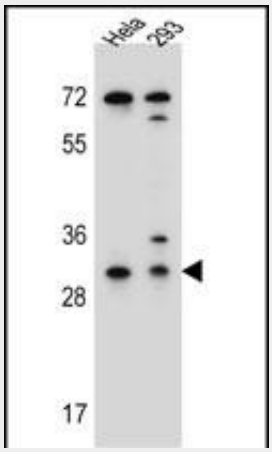
- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

EFNB2 Antibody (Center) - Images

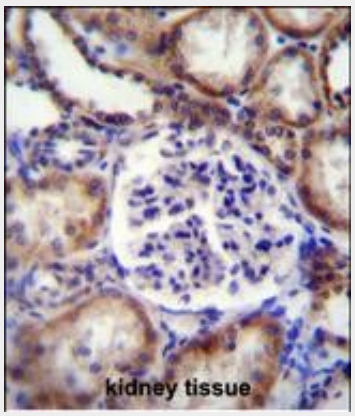


Confocal immunofluorescent analysis of EFNB2 Antibody (Center)(Cat#AP11652c) with 293 cell

followed by Alexa Fluor 488-conjugated goat anti-rabbit IgG (green). DAPI was used to stain the cell nuclear (blue).



EFNB2 Antibody (Center) (Cat. #AP11652c) western blot analysis in Hela,293 cell line lysates (35ug/lane).This demonstrates the EFNB2 antibody detected the EFNB2 protein (arrow).



EFNB2 Antibody (Center) (Cat. #AP11652c)immunohistochemistry analysis in formalin fixed and paraffin embedded human kidney tissue followed by peroxidase conjugation of the secondary antibody and DAB staining.This data demonstrates the use of EFNB2 Antibody (Center) for immunohistochemistry. Clinical relevance has not been evaluated.

EFNB2 Antibody (Center) - 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) - 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) :