

EFNB1 Antibody (Center)
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP20103c**Specification**

EFNB1 Antibody (Center) - Product Information

Application	WB,E
Primary Accession	P98172
Other Accession	O73612 , NP_004420.1
Reactivity	Human
Predicted	Chicken
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	38007
Antigen Region	88-116

EFNB1 Antibody (Center) - Additional Information**Gene ID** 1947**Other Names**

Ephrin-B1, EFL-3, ELK ligand, ELK-L, EPH-related receptor tyrosine kinase ligand 2, LERK-2, EFNB1, EFL3, EPLG2, LERK2

Target/Specificity

This EFNB1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 88-116 amino acids from the Central region of human EFNB1.

Dilution

WB~~1:1000

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

EFNB1 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

EFNB1 Antibody (Center) - Protein Information**Name** EFNB1

Synonyms EFL3, EPLG2, LERK2

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 (PubMed:[8070404](#), PubMed:[7973638](#)). Binding to Eph receptors residing on adjacent cells leads to contact-dependent bidirectional signaling into neighboring cells (PubMed:[8070404](#), PubMed:[7973638](#)). Shows high affinity for the receptor tyrosine kinase EPHB1/ELK (PubMed:[8070404](#), PubMed:[7973638](#)). Can also bind EPHB2 and EPHB3 (PubMed:[8070404](#)). Binds to, and induces collapse of, commissural axons/growth cones in vitro (By similarity). May play a role in constraining the orientation of longitudinally projecting axons (By similarity).

Cellular Location

Cell membrane; Single-pass type I membrane protein. Membrane raft. Note=May recruit GRIP1 and GRIP2 to membrane raft domains [Ephrin-B1 intracellular domain]; Nucleus. Note=Colocalizes with ZHX2 in the nucleus. {ECO:0000250|UniProtKB:P52795}

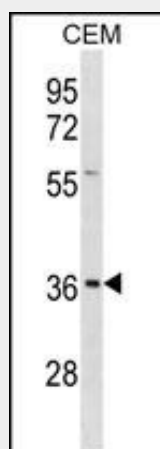
Tissue Location

Widely expressed (PubMed:[8070404](#), PubMed:[7973638](#)). Detected in both neuronal and non-neuronal tissues (PubMed:[8070404](#), PubMed:[7973638](#)). Seems to have particularly strong expression in retina, sciatic nerve, heart and spinal cord (PubMed:[7973638](#))

EFNB1 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 Cytometry](#)
- [Cell Culture](#)

EFNB1 Antibody (Center) - Images

EFNB1 Antibody (Center) (Cat. #AP20103c) western blot analysis in CEM cell line lysates (35ug/lane). This demonstrates the EFNB1 antibody detected the EFNB1 protein (arrow).

EFNB1 Antibody (Center) - Background

The protein encoded by this gene is a type I membrane protein and a ligand of Eph-related receptor tyrosine kinases. It may play a role in cell adhesion and function in the development or maintenance of the nervous system.

EFNB1 Antibody (Center) - References

Hogue, J., et al. Am. J. Med. Genet. A 152A (10), 2574-2577 (2010) :
Arvanitis, D.N., et al. Mol. Cell. Biol. 30(10):2508-2517(2010)
Makarov, R., et al. BMC Med. Genet. 11, 98 (2010) :
Vazin, T., et al. PLoS ONE 4 (8), E6606 (2009) :
Wallis, D., et al. Am. J. Med. Genet. A 146A (15), 2008-2012 (2008) :