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DANRE efnb2a Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # Azb10031a

Product Information

Application	WB, E
Primary Accession	O73874
Reactivity	Zebrafish
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	36724
Antigen Region	163-194

Additional Information

Gene ID	30219
Other Names	Ephrin-B2a, efnb2a, efnb2
Target/Specificity	This DANRE efnb2a antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 163-194 amino acids from the Central region of DANRE efnb2a.
Dilution	WB~~1:1000 E~~Use at an assay dependent concentration.
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	DANRE efnb2a Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	efnb2a
Synonyms	efnb2
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. Together with ephb4 may play a central role in heart morphogenesis and angiogenesis through regulation of cell adhesion and cell migration (By similarity).

Cellular Location Cell membrane {ECO:0000250|UniProtKB:P52799}; Single-pass type I membrane protein

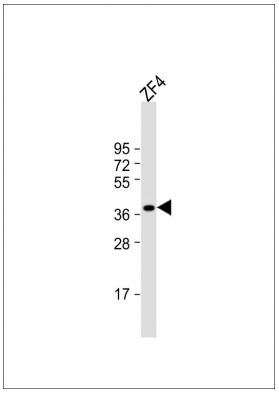
Background

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. Together with ephb4 may play a central role in heart morphogenesis and angiogenesis through regulation of cell adhesion and cell migration (By similarity).

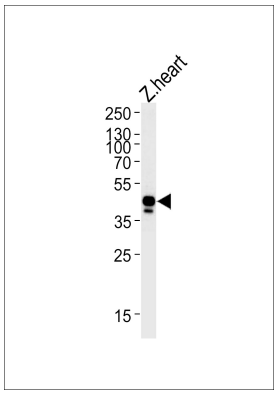
References

Durbin L., et al. Genes Dev. 12:3096-3109(1998).
Chan J., et al. Dev. Biol. 234:470-482(2001).

Images



Anti-(DANRE) efnb2a Antibody (Center) at 1:1000 dilution + ZF4 whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 37 kDa Blocking/Dilution buffer: 5% NFDM/TBST.



DANRE efnb2a Antibody (Center) (Cat. #Azb10031a) western blot analysis in zebra fish heart tissue lysates (35ug/lane).This demonstrates the DANRE efnb2a antibody detected the DANRE efnb2a protein (arrow).