EFNB1 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	EFNB1, Polyclonal Antibody
Full Product Name	EFNB1, ID (EFNB1, EFL3, EPLG2, LERK2, Ephrin-B1, EFL-3, ELK ligand, EPH-related receptor tyrosine kinase ligand 2) (MaxLight 490)
Product Gene Name	anti-EFNB1 antibody
Product Synonym Names	EFNB1; EFL3; EPLG2; LERK2; Ephrin-B1; EFL-3; ELK ligand; EPH-related receptor tyrosine kinase ligand 2
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight490.
Purity/Purification	Purified by Protein A Affinity Chromatography.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight490 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	38,007 Da
Chromosome Location	Chromosome: X; NC_000023.10 (68048840..68062007). Location: Xq12
OMIM	300035
3D Structure	ModBase 3D Structure for P98172
Immunogen	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.
Conjugate	MaxLight490
Note	Preservative Free
Product Categories/Family for anti-EFNB1 antibody	Antibodies; Protein Kinases
Applications Tested/Suitable for anti-EFNB1 antibody	Western Blot (WB), FLISA
Application Notes for anti-EFNB1 antibody	WB: 1:100-500 FLISA: 1:1,000 Applications are based on unconjugated antibody.
Related Product Information for anti-EFNB1 antibody	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.
Product References and Citations for anti-EFNB1 antibody	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).

Other Notes	Small volumes of anti-EFNB1 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for EFNB1 purchase	MBS6294594 is an antibody targeting EFNB1. Also known as EFNB1, ID (EFNB1, EFL3, EPLG2, LERK2, Ephrin-B1, EFL-3, ELK ligand, EPH-related receptor tyrosine kinase ligand 2) (MaxLight 490). Reactive in Human. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for EFNB1. It may not necessarily be applicable to this product.

NCBI GI #	4758248
NCBI GeneID	1947
NCBI Accession #	NP_004420.1
UniProt Primary Accession #	P98172
UniProt Secondary Accession #	D3DVU0
UniProt Related Accession #	P98172
GenBank Nucleotide #	NM_004429.4
NCBI Official Full Name	ephrin-B1
NCBI Official Synonym Full Names	ephrin-B1
NCBI Official Symbol	EFNB1
NCBI Official Synonym Symbols	CFND; CFNS; EFL3; EPLG2; Elk-L; LERK2
UniProt Protein Name	Ephrin-B1
UniProt Synonym Protein Names	EFL-3; ELK ligand; ELK-L; EPH-related receptor tyrosine kinase ligand 2
Protein Family	Ephrin
UniProt Gene Name	EFNB1
UniProt Synonym Gene Names	EFL3; EPLG2; LERK2; ELK-L; LERK-2
UniProt Entry Name	EFNB1_HUMAN
NCBI Protein Information	ephrin-B1; EFL-3; LERK-2; ELK ligand; ligand of eph-related kinase 2; eph-related receptor tyrosine kinase ligand 2
UniProt Comments for EFNB1	EFNB1: a type I membrane protein of the ephrin family. A ligand of Eph-related receptor tyrosine kinases EphB1 and EphA1. Ephrins and ephrin receptors mediate numerous developmental processes, particularly in the nervous system. Ephrin-B1 may play a role in cell adhesion and functions in the development or maintenance of the nervous system. Binding to its receptor induces the collapse of commissural axons/growth cones in vitro. Induced by TNF-alpha. Expressed in brain, heart, placenta, lung, liver, skeletal muscle, kidney, and pancreas. Protein type: Membrane protein, integral; Ligand, receptor tyrosine kinase Chromosomal Location of Human Ortholog: Xq12 Cellular Component: integral to plasma membrane; cytoplasm; plasma membrane; synapse; nucleus; lipid raft Molecular Function: protein binding; ephrin receptor binding Biological Process: axon guidance; cell-cell signaling; ephrin receptor signaling pathway; positive regulation of T cell proliferation; cell adhesion; embryonic pattern specification; neural crest cell migration Disease: Craniofrontonasal Syndrome

Research Articles on EFNB1	**1.** These results indicate a novel function of Nm23-H1 to control contact inhibition of locomotion, and its negative regulation by ephrin-B1.
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