Ephrin A3 (EFNA3) Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	Ephrin A3 (EFNA3), Polyclonal Antibody
Full Product Name	Anti-Ephrin A3 Antibody, Rabbit Polyclonal
Product Gene Name	anti-EFNA3 antibody
Product Synonym Names	Ephrin-A3/EFNA3 Antibody, Rabbit PAb; ephrin-A3; Anti-EFL2 Antibody; Anti-Ehk1-L Antibody; Anti-EPLG3 Antibody; Anti-LERK3 Antibody
Clonality	Polyclonal
Isotype	Rabbit IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Liquid; 0.2um filtered solution in PBS
Purity/Purification	Protein A
Specificity	Human Ephrin-A3/EFNA3
Preparation and Storage	This antibody can be stored at 2-8 degree C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 degree C to -80 degree C. Preservative-Free. Avoid repeated freeze-thaw cycles.
Molecular Weight	26,350 Da
Chromosome Location	Chromosome: 1; NC_000001.10 (155051348..155060014). Location: 1q21-q22
OMIM	601381
3D Structure	ModBase 3D Structure for P52797
Immunogen	Recombinant Human EphrinA3 protein
Conjugation	Unconjugated
Preparation	Produced in rabbits immunized with purified, recombinant Human Ephrin-A3 (rh EphrinA3). Total IgG was purified by Protein A affinity chromatography.
Applications Tested/Suitable for anti-EFNA3 antibody	ELISA (EIA)
Application Notes for anti-EFNA3 antibody	ELISA: 1:1000-1:2000
Related Product Information for anti-EFNA3 antibody	Ephrin-A3 also known as EPH-related receptor tyrosine kinase ligand 3 or EFNA3, is a member of the ephrin family. The Eph family receptor interacting proteins (ephrins) are a family of proteins that serve as the ligands of the Eph receptor, which compose the largest known subfamily of receptor protein-tyrosine kinases (RTKs). Ephrin-A3 and their Eph family of receptor tyrosine kinases are expressed by cells of the SVZ. Ephrin subclasses are further distinguished by their mode of attachment to the plasma membrane: Ephrin-A3 ligands bind EphA receptors and are anchored to the plasma membrane via a glycosylphosphatidylinositol (GPI) linkage, whereas ephrin-B ligands bind EphB receptors and are anchored via a transmembrane domain. Ephrin-A3 expressed on astrocytes activates EphA4 on the post-synaptic neuron and restricts the growth of dendritic spines through multiple pathways.

Product References and Citations for anti-EFNA3 antibody	Klein R. (2009) Bidirectional modulation of synaptic functions by Eph/ephrin signaling. Nat Neurosci. 12(1): 15-20.Lai KO, et al. (2009) Synapse development and plasticity: roles of ephrin/Eph receptor signaling. Curr Opin Neurobiol. 19(3): 275-83.Prevost N, et al. (2002) Interactions between Eph kinases and ephrins provide a mechanism to support platelet aggregation once cell-to-cell contact has occurred. Proc Natl Acad Sci U S A. 99(14): 9219-24.
Other Notes	Small volumes of anti-EFNA3 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 EFNA3 purchase	MBS8101579 is an antibody targeting EFNA3. Also known as Anti-Ephrin A3 Antibody, Rabbit Polyclonal. Reactive in Human. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for EFNA3. It may not necessarily be applicable to this product.

NCBI GI #	4826708
NCBI GeneID	1944
NCBI Accession #	NP_004943.1
UniProt Primary Accession #	P52797
UniProt Secondary Accession #	Q0VGC9; Q5SR70; D3DV85
UniProt Related Accession #	P52797
GenBank Nucleotide #	NM_004952.4
NCBI Official Full Name	ephrin-A3
NCBI Official Synonym Full Names	ephrin-A3
NCBI Official Symbol	EFNA3
NCBI Official Synonym Symbols	EFL2; EPLG3; LERK3; Ehk1-L
UniProt Protein Name	Ephrin-A3
UniProt Synonym Protein Names	EFL-2; EHK1 ligand; EHK1-L; EPH-related receptor tyrosine kinase ligand 3
Protein Family	Ephrin
UniProt Gene Name	EFNA3
UniProt Synonym Gene Names	EFL2; EPLG3; LERK3; EHK1-L; LERK-3
UniProt Entry Name	EFNA3_HUMAN
NCBI Protein Information	ephrin-A3; EFL-2; LERK-3; EHK1 ligand; ligand of eph-related kinase 3; eph-related receptor tyrosine kinase ligand 3
NCBI Summary for EFNA3	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 EFNA class ephrin. [provided by RefSeq, Jul 2008]

UniProt Comments for EFNA3	EFNA3: Cell surface GPI-bound 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. Belongs to the ephrin family. Protein type: Ligand, receptor tyrosine kinase; Membrane protein, GPI anchor; Cell development/differentiation Chromosomal Location of Human Ortholog: 1q21-q22 Cellular Component: integral to plasma membrane; plasma membrane; extracellular region Molecular Function: ephrin receptor binding; transmembrane-ephrin receptor activity Biological Process: axon guidance; cell-cell signaling; ephrin receptor signaling pathway
Research Articles on EFNA3	**1.** EphA3 mutants with constitutively-released kinase domains efficiently support shedding, even when their kinase is disabled. Our data suggest that this phosphorylation-activated conformational switch of EphA3 directly controls ADAM-mediated shedding.
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
Disclaimer	While every efforts were made to ensure the accuracy of the information provided in this datasheet, MyBioSource will not be liable for any omissions or errors contained herein. MyBioSource reserves the right to make changes to this datasheet at any time without prior notice. It is the responsibility of the customer to report product performance issues to MyBioSource within 30 days of receipt of the product. Please visit our Terms & Conditions page for more information.
Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

For Research Use Only. Not for use in diagnostic or therapeutic procedures.

MyBioSource | Tel: +1.858.633.0165 | Fax: +1.858.633.0166 | mybiosource.com/contact-us
Online datasheet: https://www.mybiosource.com/polyclonal-efna3-human-antibody/ephrin-a3/8101579