LIN7A Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	LIN7A, Polyclonal Antibody
Full Product Name	LIN7A Polyclonal Conjugated Antibody
Product Gene Name	anti-LIN7A antibody
Product Synonym Names	LIN7A Conjugated Antibody; LIN7A; LIN-7A; LIN7; MALS-1; TIP-33; VELI1; protein lin-7 homolog A
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Form/Format	0.01M Sodium Phosphate, 0.25M NaCl, pH 7.6, 5mg/ml Bovine Serum Albumin, 0.02% Sodium Azide
Purity/Purification	Affinity purification
Preparation and Storage	Store at 4 degree C for 6 months.
Molecular Weight	25,997 Da
OMIM	603380
3D Structure	ModBase 3D Structure for O14910
Immunogen	Recombinant fusion protein of human LIN7A (NP_004655.1).
Conjugation	Biotin AF350 AF405 AF488 AF555 AF594 AF647 AF680 AF750
Excitation Emission	AF350: 346nm/442nm
Applications Tested/Suitable for anti-LIN7A antibody	Most Applications
Application Notes for anti-LIN7A antibody	Suggested Dilution: AF350 conjugated: most applications: 1:50-1:250 AF405 conjugated: most applications: 1:50-1:250 AF488 conjugated: most applications: 1:50-1:250 AF555 conjugated: most applications: 1:50-1:250 AF594 conjugated: most applications: 1:50-1:250 AF647 conjugated: most applications: 1:50-1:250 AF680 conjugated: most applications: 1:50-1:250 AF750 conjugated: most applications: 1:50-1:250 Biotin conjugated: working with enzyme-conjugated streptavidin, most applications: 1:50-1:1000
Related Product Information for anti-LIN7A antibody	The protein encoded by this gene is involved in generating and maintaining the asymmetric distribution of channels and receptors at the cell membrane. The encoded protein also is required for the localization of some specific channels and can be part of a protein complex that couples synaptic vesicle exocytosis to cell adhesion in the brain.
Other Notes	Small volumes of anti-LIN7A 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 LIN7A purchase	MBS9440524 is an antibody targeting LIN7A. Also known as LIN7A Polyclonal Conjugated Antibody. Reactive in Human, Mouse, Rat. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for LIN7A. It may not necessarily be applicable to this product.

NCBI GI #	4759306
NCBI GeneID	8825
NCBI Accession #	NP_004655.1
UniProt Primary Accession #	O14910
UniProt Secondary Accession #	Q147W1; Q6LES3; Q7LDS4; A4FTY3
UniProt Related Accession #	O14910
GenBank Nucleotide #	NM_004664.2
NCBI Official Full Name	protein lin-7 homolog A
NCBI Official Synonym Full Names	lin-7 homolog A (C. elegans)
NCBI Official Symbol	LIN7A
NCBI Official Synonym Symbols	LIN7; VELI1; LIN-7A; MALS-1; TIP-33
UniProt Protein Name	Protein lin-7 homolog A
UniProt Synonym Protein Names	Mammalian lin-seven protein 1; MALS-1; Tax interaction protein 33; TIP-33; Vertebrate lin-7 homolog 1; Veli-1
Protein Family	Protein
UniProt Gene Name	LIN7A
UniProt Synonym Gene Names	MALS1; VELI1; Lin-7A; hLin-7; MALS-1; TIP-33; Veli-1
UniProt Entry Name	LIN7A_HUMAN
NCBI Protein Information	protein lin-7 homolog A; hLin-7; mammalian LIN-7 1; mammalian lin-seven protein 1; tax interaction protein 33; veli-1; vertebrate LIN7 homolog 1; vertebrate lin-7 homolog 1
UniProt Comments for LIN7A	LIN7A: Plays a role in establishing and maintaining the asymmetric distribution of channels and receptors at the plasma membrane of polarized cells. Forms membrane-associated multiprotein complexes that may regulate delivery and recycling of proteins to the correct membrane domains. The tripartite complex composed of LIN7 (LIN7A, LIN7B or LIN7C), CASK and APBA1 may have the potential to couple synaptic vesicle exocytosis to cell adhesion in brain. Ensures the proper localization of GRIN2B (subunit 2B of the NMDA receptor) to neuronal postsynaptic density and may function in localizing synaptic vesicles at synapses where it is recruited by beta-catenin and cadherin. Required to localize Kir2 channels, GABA transporter (SLC6A12) and EGFR/ERBB1, ERBB2, ERBB3 and ERBB4 to the basolateral membrane of epithelial cells. Belongs to the lin-7 family. Protein type: Adaptor/scaffold; Cell adhesion Chromosomal Location of Human Ortholog: 12q21 Cellular Component: postsynaptic membrane; neuron projection; tight junction; basolateral plasma membrane; postsynaptic density; synapse; intercellular junction Molecular Function: protein binding; PDZ domain binding Biological Process: asymmetric protein localization; protein transport; exocytosis; neurotransmitter secretion; synaptic vesicle transport; protein complex assembly; inner ear development; maintenance of epithelial cell polarity
Research Articles on LIN7A	**1.** LIN7A depletion disrupts cerebral cortex development, contributing to intellectual disability in 12q21-deletion syndrome.

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