LIN7A Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	LIN7A, Polyclonal Antibody
Full Product Name	LIN7A, CT (LIN7A, MALS1, VELI1, Protein lin-7 homolog A, Mammalian lin-seven protein 1, Tax interaction protein 33, Vertebrate lin-7 homolog 1) (MaxLight 650)
Product Gene Name	anti-LIN7A antibody
Product Synonym Names	LIN7A; MALS1; VELI1; Protein lin-7 homolog A; Mammalian lin-seven protein 1; Tax interaction protein 33; Vertebrate lin-7 homolog 1
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 MaxLight650.
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: MaxLight650 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	25,997 Da
OMIM	603380
3D Structure	ModBase 3D Structure for O14910
Immunogen	LIN7A antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 179-207 amino acids from the C-terminal region of human LIN7A.
Conjugate	MaxLight650
Note	Preservative Free
Product Categories/Family for anti-LIN7A antibody	Antibodies; Proteins
Applications Tested/Suitable for anti-LIN7A antibody	Western Blot (WB), FLISA
Application Notes for anti-LIN7A antibody	WB: 1:100-500 FLISA: 1:1,000 Applications are based on unconjugated antibody.
Related Product Information for anti-LIN7A antibody	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.

Product References and Citations for anti-LIN7A antibody	Rose, J.E., et al. Mol. Med. 16 (7-8), 247-253 (2010): Lanktree, M., et al. Am. J. Med. Genet. B Neuropsychiatr. Genet. 147B (6), 945-951 (2008): Bohl, J., et al. J. Biol. Chem. 282(13):9392-9400(2007). Dode, L., et al. J. Biol. Chem. 280(47):39124-39134(2005). Olsen, O., et al. Am. J. Physiol. Renal Physiol. 288 (2), F345-F352 (2005).
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	MBS6316281 is an antibody targeting LIN7A. Also known as LIN7A, CT (LIN7A, MALS1, VELI1, Protein lin-7 homolog A, Mammalian lin-seven protein 1, Tax interaction protein 33, Vertebrate lin-7 homolog 1) (MaxLight 650). Reactive in Human. 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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