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LIN7B Antibody (N-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP19782a

Product Information

Application	WB, E
Primary Accession	Q9HAP6
Other Accession	Q9Z252, O88951, Q2KIB6, NP_071448.1
Reactivity	Human, Mouse
Predicted	Bovine, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB40557
Calculated MW	22896
Antigen Region	35-62

Additional Information

Gene ID	64130
Other Names	Protein lin-7 homolog B, Lin-7B, hLin7B, Mammalian lin-seven protein 2, MALS-2, Vertebrate lin-7 homolog 2, Veli-2, hVeli2, LIN7B, MALS2, VELI2
Target/Specificity	This LIN7B antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 35-62 amino acids from the N-terminal region of human LIN7B.
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	LIN7B Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	LIN7B
Synonyms	MALS2, VELI2

Function	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 associates with the motor protein KIF17 to transport vesicles containing N-methyl-D-aspartate (NMDA) receptor subunit NR2B along microtubules (By similarity). This complex 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. May increase the amplitude of ASIC3 acid-evoked currents by stabilizing the channel at the cell surface (By similarity).
Cellular Location	Cell membrane {ECO:0000250|UniProtKB:O88951}; Peripheral membrane protein {ECO:0000250|UniProtKB:O88951}. Basolateral cell membrane; Peripheral membrane protein {ECO:0000250|UniProtKB:O88951}. Cell junction {ECO:0000250|UniProtKB:O88951}. Postsynaptic density membrane {ECO:0000250|UniProtKB:O88951}; Peripheral membrane protein {ECO:0000250|UniProtKB:O88951}. Cell junction, tight junction {ECO:0000250|UniProtKB:O88951}. Note=Mainly basolateral in renal epithelial cells.

Background

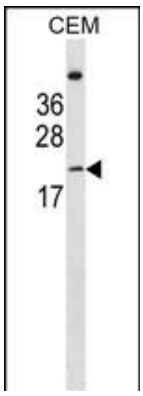
Plays a role in establishing and maintaining the asymmetric distribution of channels and receptors at the plasma membrane of polarized cells. Forms membrane-associated multiprotein complexes that may regulate delivery and recycling of proteins to the correct membrane domains. The tripartite complex composed 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. May increase the amplitude of ACCN3 acid-evoked currents by stabilizing the channel at the cell surface (By similarity).

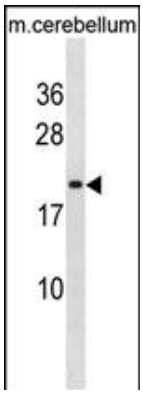
References

Zucker, B., et al. J. Neuropathol. Exp. Neurol. 69(9):880-895(2010)
Lanktree, M., et al. Am. J. Med. Genet. B Neuropsychiatr. Genet. 147B (6), 945-951 (2008) :
Sudo, K., et al. Neurosci. Res. 56(4):347-355(2006)
Li, Z., et al. J. Biol. Chem. 281(16):11066-11073(2006)
Kawai, S., et al. J. Biol. Chem. 280(47):39200-39207(2005)

Images

LIN7B Antibody (N-term) (Cat. #AP19782a) western blot analysis in CEM cell line lysates (35ug/lane).This demonstrates the LIN7B antibody detected the LIN7B protein (arrow).





LIN7B Antibody (N-term) (Cat. #AP19782a) western blot analysis in mouse cerebellum tissue lysates (35ug/lane).This demonstrates the LIN7B antibody detected the LIN7B protein (arrow).