

LIN7B Antibody (N-term)
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP19782a**Specification**

LIN7B Antibody (N-term) - 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
Calculated MW	22896
Antigen Region	35-62

LIN7B Antibody (N-term) - 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

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.

LIN7B Antibody (N-term) - 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

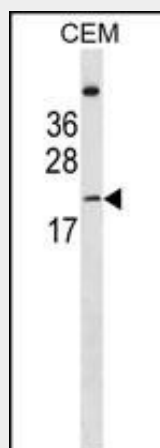
Cell membrane {ECO:0000250|UniProtKB:O88951}; Peripheral membrane protein {ECO:0000250|UniProtKB:O88951}. Basolateral cell membrane; Peripheral membrane protein {ECO:0000250|UniProtKB:O88951}. Cell junction {ECO:0000250|UniProtKB:O88951}. Postsynaptic density membrane {ECO:0000250|UniProtKB:O88951}; Peripheral membrane protein {ECO:0000250|UniProtKB:O88951}. Cell junction, tight junction {ECO:0000250|UniProtKB:O88951}. Note=Mainly basolateral in renal epithelial cells.

LIN7B Antibody (N-term) - Protocols

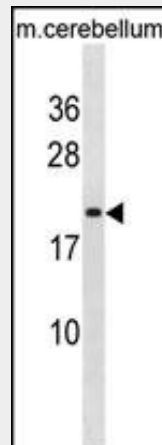
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

LIN7B Antibody (N-term) - 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).

LIN7B Antibody (N-term) - 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).

LIN7B Antibody (N-term) - 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)