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LIN7B / MALS-2 Antibody (N-Term)

Peptide-affinity purified goat antibody
Catalog # AF2389a

Specification

LIN7B / MALS-2 Antibody (N-Term) - Product Information

Application	**WB, E**
Primary Accession	Q9HAP6
Other Accession	NP_071448.1, 64130, 22342 (mouse), 60377 (rat)
Reactivity	**Mouse, Rat**
Predicted	**Human, Pig, Dog**
Host	**Goat**
Clonality	**Polyclonal**
Concentration	**0.5 mg/ml**
Isotype	**IgG**
Calculated MW	**22896**

LIN7B / MALS-2 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

Dilution
WB~~1:1000
E~~N/A

Format
0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
LIN7B / MALS-2 Antibody (N-Term) is for research use only and not for use in diagnostic or therapeutic procedures.

LIN7B / MALS-2 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 / MALS-2 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 Cytomety
- Cell Culture

LIN7B / MALS-2 Antibody (N-Term) - Images

AF2389a (0.5 µg/ml) staining of Rat Brain lysate (35 µg protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

LIN7B / MALS-2 Antibody (N-Term) - References

Characterization of MALS/Velis-1, -2, and -3: a family of mammalian LIN-7 homologs enriched at brain synapses in association with the postsynaptic density-95/NMDA receptor postsynaptic complex. Jo K, Derin R, Li M, Bredt DS. J Neurosci. 1999 Jun 1;19(11):4189-99. PMID: 10341223