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Vap33 MSP

Vap33
MSP
Vap33 MSP Mmp1/2
MSP

VAPB Vap33 (ALS8)
ALS MSP
MSP
ALS

2, 3 Vap33 VAPB

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Vap33 MSP

VAPB (ALS8) ALS
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VAPB MSP
ALS

Nature Communications 10 10

Nature Communications

Secretion of endoplasmic reticulum protein VAPB/ALS8 requires topological inversion

Kosuke Kamemura, Rio Kozono, Mizuki Tando, Misako Okumura, Daisuke Koga, Satoshi Kusumi, Kanako Tamai, Aoi Okumura, Sayaka Sekine, Daichi Kamiyama & Takahiro Chihara

DOI https://doi.org/10.1038/s41467-024-53097-5

2024 Oct 10

4

VAPB

VAPB ALS8

VAPB MSP

3 ALS

MSP VAPB MSP

VAPB MSP

Vap33 VAPB

MSP

Vap33 MSP 4

Vap33

Vap33 MSP

Vap33

Vap33

Mmp1/2 MSP

VAPB/Vap33

Mmp1/2

MSP

VAPB/Vap33 Mmp1/2 MSP

ALS

1 (ALS)

2

3

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1

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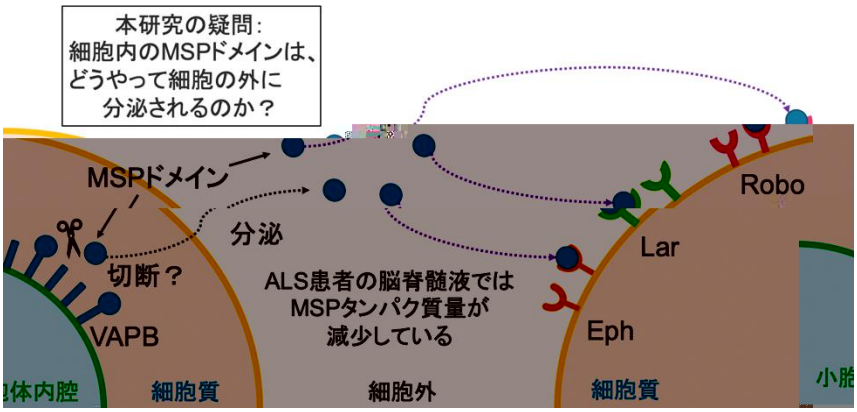
2

3 VAPB

MSP

Eph, Robo,

Lar VAPB

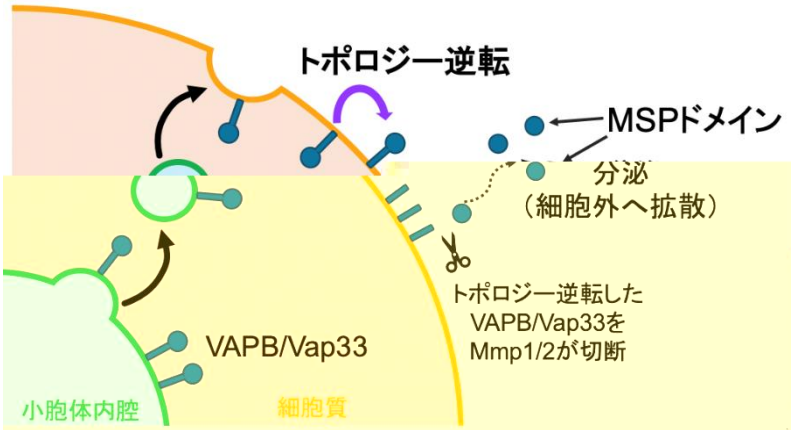


4 VAPB/Vap33 MSP

VAPB/Vap33

MSP

Mmp1/2 MSP



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