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- Mgr2 promotes coupling of the mitochondrial presequence translocase to partner complexes

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- Talin activates integrins by altering the topology of the β transmembrane domain

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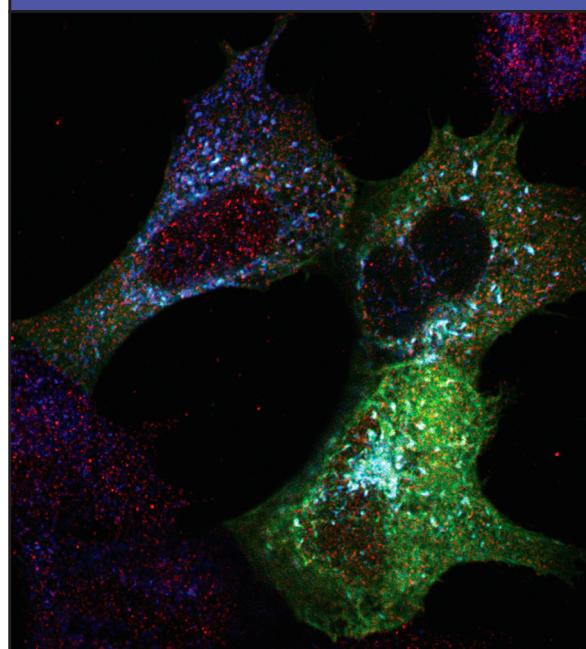
- LATS1/WARTS phosphorylates MYPT1 to counteract PLK1 and regulate mammalian mitotic progression

Tatsuyuki Chiyoda, Naoyuki Sugiyama, Takatsune Shimizu, Hideaki Naoe, Yusuke Kobayashi, Jo Ishizawa, Yoshimi Arima, Hiroshi Tsuda, Masaaki Ito, Kozo Kaibuchi, Daisuke Aoki, Yasushi Ishihama, Hideyuki Saya, and Shinji Kuninaka

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- Stoichiometry of Nck-dependent actin polymerization in living cells

Jonathan A. Ditlev, Paul J. Michalski, Greg Huber, Gonzalo M. Rivera, William A. Mohler, Leslie M. Loew, and Bruce J. Mayer



On the cover

Longatti et al. reveal that recycling endosomes contribute to the formation of autophagosomes in starving cells undergoing autophagy. Overexpression of the Rab GTPase-activating protein TBC1D14 (green) inhibits autophagosome biogenesis by tubulating recycling endosomes containing transferrin (blue) and the autophagy protein Atg13 (red).

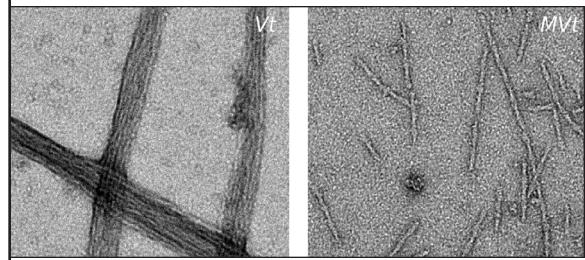
Image courtesy of Christopher Lamb.
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TBC1D14 regulates autophagosome formation via Rab11- and ULK1-positive recycling endosomes
Andrea Longatti, Christopher A. Lamb, Minoo Razi, Shin-ichiro Yoshimura,
Francis A. Barr, and Sharon A. Tooze

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Basement membrane assembly of the integrin $\alpha 8\beta 1$ ligand nephronectin requires Fraser syndrome-associated proteins
Daiji Kiyozumi, Makiko Takeichi, Itsuko Nakano, Yuya Sato, Tomohiko Fukuda,
and Kiyotoshi Sekiguchi



The C-terminal tail of vinculin organizes actin filaments into thick bundles (left), whereas the tail of metavinculin—a splice variant primarily expressed in smooth and cardiac muscle cells—severs actin into short, single filaments (right).

Image © 2012 Janssen et al.

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