

Table S1. Key ERM activities.

ERM activity	Description	Reference
B cell activation	Ezrin facilitates B-cell receptor clustering in response to antigen	(Parameswaran & Gupta, 2013)
Immunological synapse formation	Ezrin and moesin are required for the formation and activation of the immunological synapse	Parameswaran & Gupta, 2013)
Leukocyte rolling	ERM-association with the P-selectin glycoprotein PSGL regulates leukocyte rolling	(Spertini et al., 2012)
Stereocilia	Radixin is required for the maintenance of stereocilia in mice	(Kitajiri et al., 2004).
Cilia membrane composition	ERM proteins control the partitioning of membrane proteins in the ciliary membrane	(Francis et al., 2011).
Parietal cell activation	Ezrin is required for the formation and translocation of apical canalicular membranes in parietal cells	Tamura et al., 2005)
Podocyte formation	Moesin links podocalyxin to the actin cytoskeleton and is essential for the maintenance of the podocyte foot process in the kidney	(Fukasawa et al., 2011).
RhoGTPase regulation	<i>Drosophila</i> Moesin interacts with and regulates the RhoGAP Conundrum	(Neisch et al., 2013)
Melanoma cell migration	Ezrin is required for the formation of a uropod-like structure that guides amoeboid movement of melanoma cells	(Lorentzen et al., 2011)
Cell division	ERM proteins are required for mitotic rounding and spindle integrity during cell division	This review
Cortical asymmetry	ERM proteins are required in many contexts for establishing cortical polarity	This review
Apical morphogenesis	ERM proteins are essential drivers of apical morphogenesis	This review

References

- Francis, S. S., Sfakianos, J., Lo, B. and Mellman, I.** (2011). A hierarchy of signals regulates entry of membrane proteins into the ciliary membrane domain in epithelial cells. *J. Cell Biol.* **193**, 219-233.
- Fukasawa, H., Obayashi, H., Schmieder, S., Lee, J., Ghosh, P. and Farquhar, M. G.** (2011). Phosphorylation of podocalyxin (Ser415) Prevents RhoA and ezrin activation and disrupts its interaction with the actin cytoskeleton. *Am. J. Pathol.* **179**, 2254-2265.
- Kitajiri, S., Fukumoto, K., Hata, M., Sasaki, H., Katsuno, T., Nakagawa, T., Ito, J., Tsukita, S. and Tsukita, S.** (2004). Radixin deficiency causes deafness associated with progressive degeneration of cochlear stereocilia. *J. Cell Biol.* **166**, 559-570.

- Lorentzen, A., Bamber, J., Sadok, A., Elson-Schwab, I. and Marshall, C. J.** (2011). An ezrin-rich, rigid uropod-like structure directs movement of amoeboid blebbing cells. *J. Cell Sci.* **124**, 1256-1267.
- Neisch, A. L., Formstecher, E. and Fehon, R. G.** (2013). Conundrum, an ARHGAP18 orthologue, regulates RhoA and proliferation through interactions with Moesin. *Mol. Biol. Cell* **24**, 1420-1433.
- Parameswaran, N. and Gupta, N.** (2013). Re-defining ERM function in lymphocyte activation and migration. *Immunol. Rev.* **256**, 63-79.
- Spertini, C., Baisse, B. and Spertini, O.** (2012). Ezrin-radixin-moesin-binding sequence of PSGL-1 glycoprotein regulates leukocyte rolling on selectins and activation of extracellular signal-regulated kinases. *J. Biol. Chem.* **287**, 10693-10702.
- Tamura, A., Kikuchi, S., Hata, M., Katsuno, T., Matsui, T., Hayashi, H., Suzuki, Y., Noda, T., Tsukita, S. and Tsukita, S.** (2005). Achlorhydria by ezrin knockdown: defects in the formation/expansion of apical canaliculi in gastric parietal cells. *J. Cell Biol.* **169**, 21-28.