## Supplementary Materials

**Movie 1.** Migration and process formation by Neuro-2a cells cultured on laminin in serum-free medium. See legend of Fig. 2a. One second in the movie represents 2 h.

**Movie 2.** Rear-side localization of the centrosome (green) in migrating and process forming Neuro-2a cells. Cells were transfected with AKAP450-GFP. See legend of Fig. 4a. One second in the movie represents 1 h.

**Movie 3.** Rear-side localization of the centrosome (green) in migrating Neuro-2a cells. Cells were transfected with AKAP450-GFP. See legend of Fig. 4b. One second in the movie represents 1 h.

**Movie 4.** Migration of spastin-depleted Neuro-2a cells. See legend of Fig. 7a. One second in the movie represents 1 h.

**Movie 5.** Migration of control Neuro-2a cells. See legend of Fig. 7b. One second in the movie represents 1 h.