

Publication**ARF-GAP-mediated interaction between the ER-Golgi v-SNAREs and the COPI coat****JournalArticle (Originalarbeit in einer wissenschaftlichen Zeitschrift)****ID** 156806**Author(s)** Rein, Ulrike; Andag, Uwe; Duden, Rainer; Schmitt, Hans Dieter; Spang, Anne**Author(s) at UniBasel** [Spang, Anne](#) ;**Year** 2002**Title** ARF-GAP-mediated interaction between the ER-Golgi v-SNAREs and the COPI coat**Journal** The Journal of cell biology**Volume** 157**Number** 3**Pages / Article-Number** 395-404**Keywords** Arf, ARF-GAP, COPI, ER-Golgi SNAREs, protein transport

In eukaryotic cells, secretion is achieved by vesicular transport. Fusion of such vesicles with the correct target compartment relies on SNARE proteins on both vesicle (v-SNARE) and the target membranes (t-SNARE). At present it is not clear how v-SNAREs are incorporated into transport vesicles. Here, we show that binding of ADP-ribosylation factor (ARF)-GTPase-activating protein (GAP) to ER-Golgi v-SNAREs is an essential step for recruitment of Arf1p and coatamer, proteins that together form the COPI coat. ARF-GAP acts catalytically to recruit COPI components. Inclusion of v-SNAREs into COPI vesicles could be mediated by direct interaction with the coat. The mechanisms by which v-SNAREs interact with COPI and COPII coat proteins seem to be different and may play a key role in determining specificity in vesicle budding.

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