



**Fig. 1.** Graph showing 6 possible scenarios of staining foraminiferal cells with SiR-actin. **A-C** shows hypothetical scenarios of specific staining: **A** illustrates a scenario in which SiR-actin stains actin filaments in the interior of vesicles (e.g. Fibrillar Vesicles); **B** SiR-actin labels actin filaments surrounding vesicles possibly related to movement of these vesicles (e.g. facilitating endocytosis or corresponding to elliptical fussy-coated vesicles). **C** assumes that actin filaments (stained with SiR-actin) are both inside and outside vesicles. **D-E** illustrate potential staining artifacts. In those scenarios SiR-actin does not label physiologically active actin filaments in granules in foraminifera (ipso facto observed Actin Labelled Granules consist artifacts), incl. unspecific labelling of some proteins inside (**D**) or outside (**E**) of vesicular structures, or (**F**) SiR-actin induction of F-actin polymerisation.