

Description of Additional Supplementary Files

File Name: Supplementary Movie 1

Description: Live-cell time-lapse microscopy of ARID1A wild-type RMG1 parental (S1), ARID1A KO RMG1 (S2) or ARID1A-mutated TOV21G (S3) cells. An inverted wide-field fluorescent microscope Nikon Te300 was used under controlled CO₂ (5%) and temperature (37 °C) for 24 hrs. The movie was analyzed and edited by NIS-elements AR software (Nikon).

File Name: Supplementary Movie 2

Description: Live-cell time-lapse microscopy of ARID1A wild-type RMG1 parental (S1), ARID1A KO RMG1 (S2) or ARID1A-mutated TOV21G (S3) cells. An inverted wide-field fluorescent microscope Nikon Te300 was used under controlled CO₂ (5%) and temperature (37 °C) for 24 hrs. The movie was analyzed and edited by NIS-elements AR software (Nikon).

File Name: Supplementary Movie 3

Description: Live-cell time-lapse microscopy of ARID1A wild-type RMG1 parental (S1), ARID1A KO RMG1 (S2) or ARID1A-mutated TOV21G (S3) cells. An inverted wide-field fluorescent microscope Nikon Te300 was used under controlled CO₂ (5%) and temperature (37 °C) for 24 hrs. The movie was analyzed and edited by NIS-elements AR software (Nikon).

File Name: Supplementary Movie 4

Description: Live-cell time-lapse microscopy of ARID1A wild-type RMG1 expressing shSTAG1 (S4), ARID1A KO RMG1 rescued with a wild-type (S5) or a nucleus-localization deficient STAG1 (S6). An inverted wide-field fluorescent microscope Nikon Te300 was used under controlled CO₂ (5%) and temperature (37 °C) for 24 hrs. The movie was analyzed and edited by NIS-elements AR software (Nikon).

File Name: Supplementary Movie 5

Description: Live-cell time-lapse microscopy of ARID1A wild-type RMG1 expressing shSTAG1 (S4), ARID1A KO RMG1 rescued with a wild-type (S5) or a nucleus-localization deficient STAG1 (S6). An inverted wide-field fluorescent microscope Nikon Te300 was used under controlled CO₂ (5%) and temperature (37 °C) for 24 hrs. The movie was analyzed and edited by NIS-elements AR software (Nikon).

File Name: Supplementary Movie 6

Description: Live-cell time-lapse microscopy of ARID1A wild-type RMG1 expressing shSTAG1 (S4), ARID1A KO RMG1 rescued with a wild-type (S5) or a nucleus-localization deficient STAG1 (S6). An inverted wide-field fluorescent microscope Nikon Te300 was used under controlled CO₂ (5%) and temperature (37 °C) for 24 hrs. The movie was analyzed and edited by NIS-elements AR software (Nikon).