

Figure S1. Quantification of western blot results. (A) Protein expression levels of RASA1, p21, and Ras-GTP in SW480 or SW480/OXA cells transfected with miR-188-5p mimics or inhibitors. n=3. * $P < 0.01$, ** $P < 0.001$ vs. NC mimics; ## $P < 0.01$, ### $P < 0.001$ vs. NC inhibitor. (B) Protein expression levels of RASA1, p21, and Ras-GTP in SW480 or SW480/OXA cells transfected with RASA1 plasmid or RASA1 siRNA. n=3. * $P < 0.01$, ** $P < 0.001$ vs. vector; ## $P < 0.01$, ### $P < 0.001$ vs. siNC group. (C) RASA1, p21, and Ras-GTP protein expression levels in SW480 or SW480/OXA cells following co-transfection with RASA1 plasmid or RASA1 siRNA and with miR-188-5p or inhibitor. n=3. * $P < 0.01$, ** $P < 0.001$ vs. mimics + vector group; # $P < 0.05$, ## $P < 0.01$, ### $P < 0.001$ vs. inhibitor + siNC group. miR, microRNA; oxa, oxaliplatin; RASA1, Ras GTPase-activating protein 1; NC, negative control; siNC, siRNA negative control.

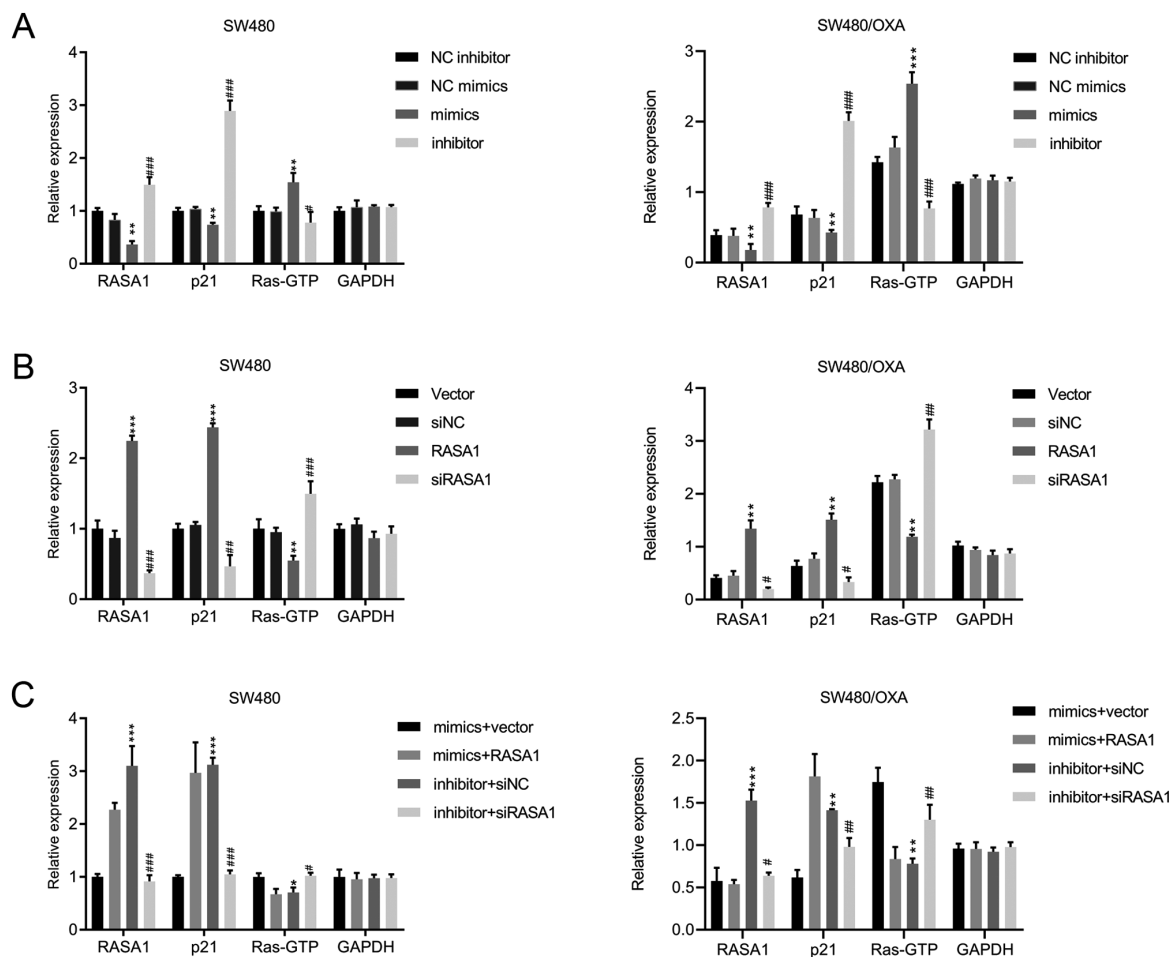


Figure S2. Quantification of Hoechst 33342 staining following different transfection conditions. (A) Hoechst 33342 staining in SW480 or SW480/OXA cells transfected with miR-188-5p mimics or inhibitor. * $P < 0.05$, *** $P < 0.001$ vs. NC mimics; # $P < 0.05$, ### $P < 0.001$ vs. NC inhibitor. (B) Hoechst 33342 staining in SW480 or SW480/OXA cells transfected with RASA1 overexpression plasmid or RASA1 siRNA. * $P < 0.05$, *** $P < 0.001$ vs. vector; # $P < 0.05$, ### $P < 0.001$ vs. siNC group. (C) Hoechst 33342 staining in SW480 or SW480/OXA cells following co-transfection with RASA1 plasmid or RASA1 siRNA and with miR-188-5p or inhibitor. *** $P < 0.001$ vs. mimics + vector group; ### $P < 0.001$ vs. inhibitor + siNC group. miR, microRNA; oxa, oxaliplatin; RASA1, Ras GTPase-activating protein 1; NC, negative control; siNC, siRNA negative control.

