

Figure S1. Cell line authentication, related to Figure 1 and 2. The authenticity of the genomic-engineered KRAS-G12V isogenic cell lines and patient-derived colorectal cancer cell lines was experimentally verified by western blotting of the cell lysates using KRAS-G12V or pan-KRAS antibody.

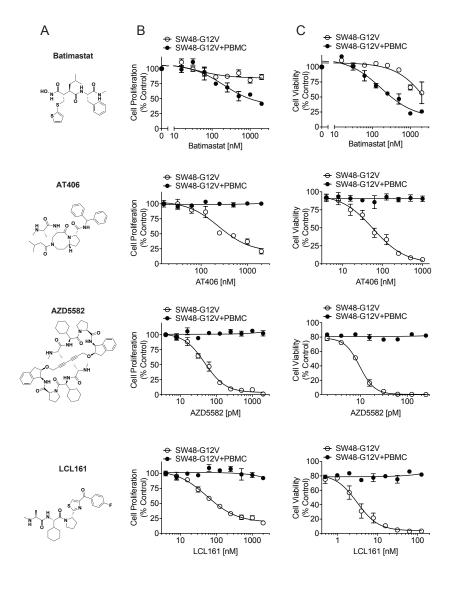
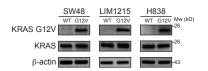


Figure S2. Assay and screening performance evaluation, related to Figure 1 and 2. (A-B) S/B and Z' calculated at PBMC/cancer cell ratio of 5 from (A) image- and (B) biochemical-based readouts. The data are presented as mean \pm SD from 4 replicate wells. (C-F) S/B and Z' calculated from six independent assay plates in the presence (C and D) or the absence (E and F) of PBMC using the image-based cell proliferation readouts (C and E) or the biochemical-based cell viability readouts (D and F). The data are presented as mean \pm SD from 16 replicate wells. For dots that show no error bar, the error bar was smaller than the dot.



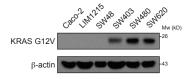


Figure S3. Dose-response curves of batimastat and three additional IAP antagonists in HTiP assay, related to Figure 2. (A) Chemical structure of the compounds as indicated. (B-C) The corresponding dose-dependent inhibition curves of SW48-G12V cell growth from (B) image-based cell proliferation and (C) biochemical-based cell viability readouts. The data are presented as mean ± SEM from four replicate wells.