



**(a)** HT-1080 cells expressing cytoplasmic DsRed2 and Histone-2B-EGFP before and after SDS-PAGE under native conditions. The square boxes indicate the regions where the spectra were taken from. **(b)** 2-photon excitation spectra of EGFP, DsRed2, and Alexa Fluor 660. The solid lines represent the isolated protein in SDS-PAGE or soluble Alexa Fluor 660 and the dashed lines living dual-color cells. The calculated efficiency to excite DsRed2 at 1100 nm was 20-fold higher compared with excitation at 760 nm. **(c)** Simultaneous excitation of EGFP at 830 nm and DsRed2 at 1100 nm in live, non-fixed HT-1080 dual-color cells. Bars, 20  $\mu$ m. (Andresen V, et al. Curr Opin Biotechnol 20, 54-62, 2009).