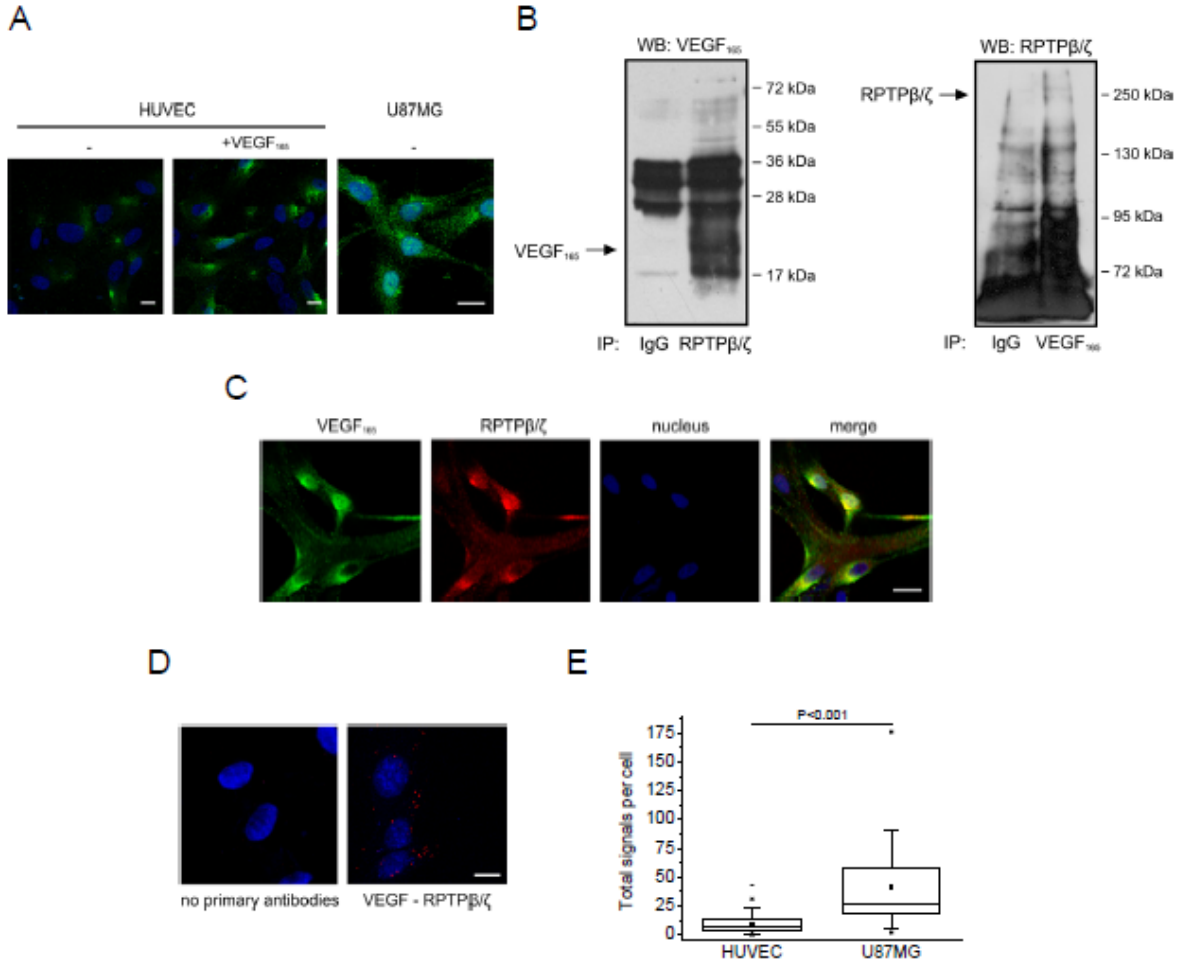

Additional file 2. VEGF-RPTPβ/ζ interaction in human glioma U87MG cells. (A) Immunofluorescence images of HUVEC and U87MG cells stained for $VEGF_{165}$ (green) and nucleus (blue). Representative pictures from three and two independent experiments respectively. **(B)** U87MG cell lysates were immunoprecipitated for RPTPβ/ζ or $VEGF_{165}$. Immunoprecipitates were analyzed by Western blot for the presence of $VEGF_{165}$ or RPTPβ/ζ, respectively. IgG was used as a negative control. Representative blots from two independent experiments. **(C)** Immunofluorescence images of U87MG cells stained for $VEGF_{165}$ (green), RPTPβ/ζ (red) and nucleus (blue). Representative pictures from two independent experiments. **(D)** *In situ* PLA signals were detected as red dots, indicating the direct formation of $VEGF_{165}$-RPTPβ/ζ complexes. Representative pictures from three independent experiments. Scale bars in A, C and D correspond to 10 μm. **(E)** Formation of VEGF-RPTPβ/ζ complexes as evidenced by *in situ* PLA in HUVEC and U87MG cells. The box plots indicate the median, mean and range of the detected signals (n > 20 image fields with 4-6 cells per image per sample type, each sample run in duplicate) from four independent experiments.