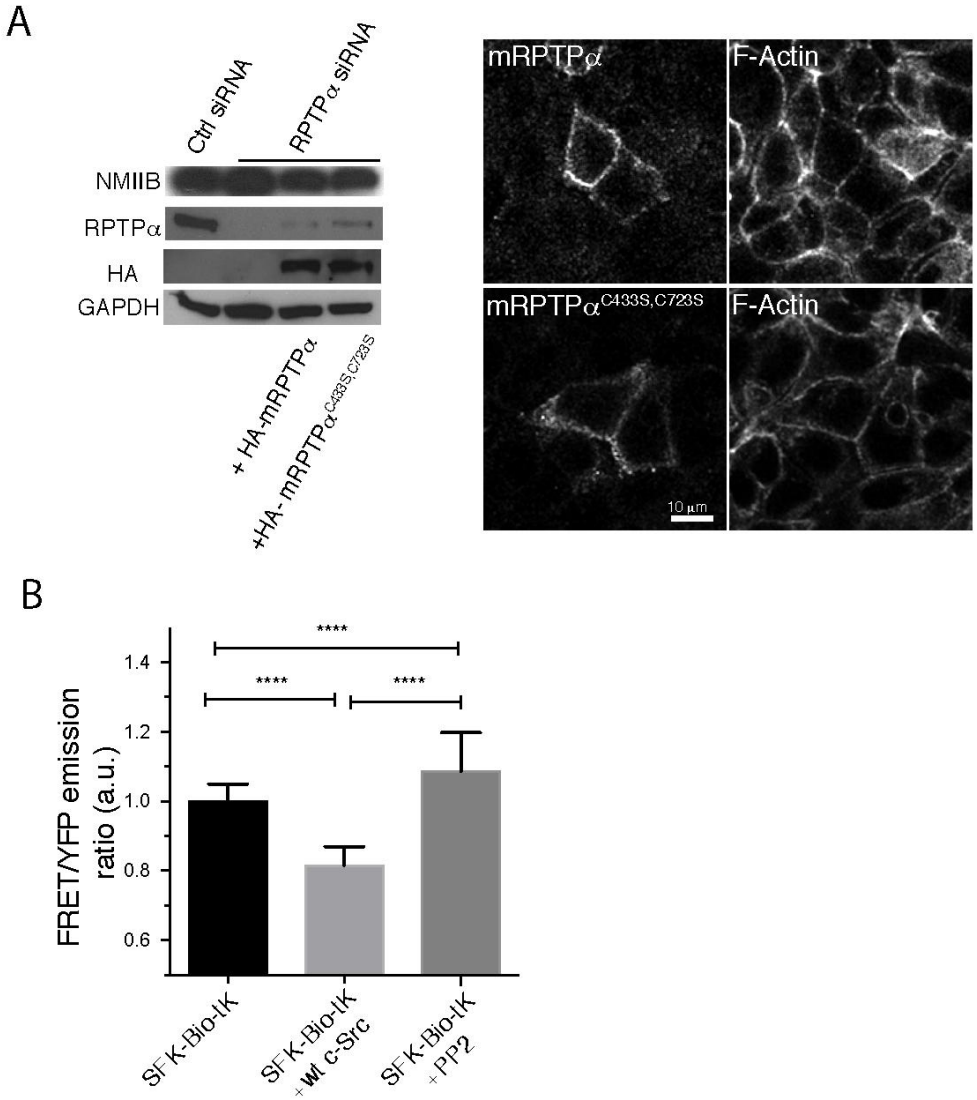
Supplemental Materials

Molecular Biology of the Cell

Gomez et al.

Supplementary Material

Supplementary Figure 1



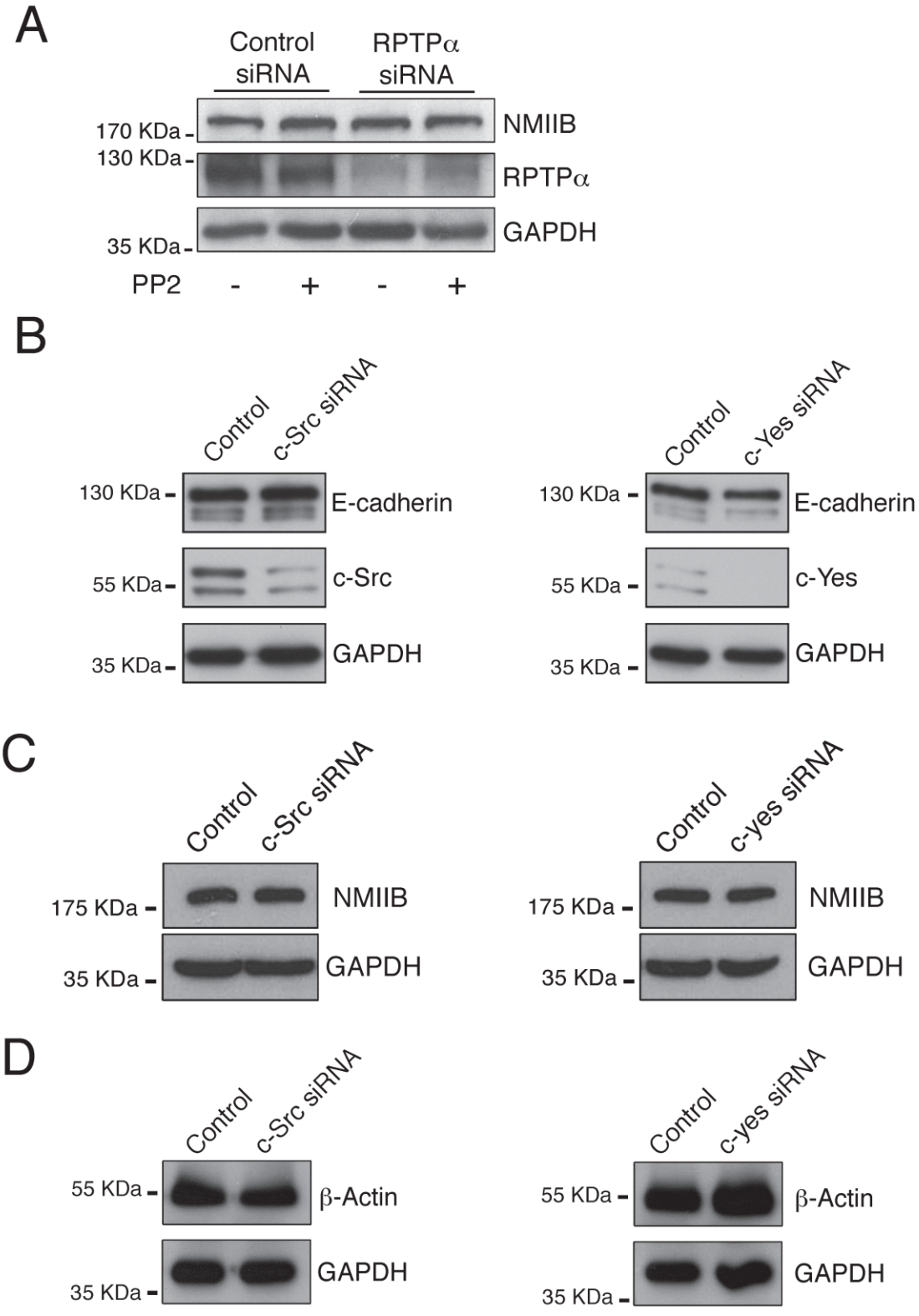
Supplementary Figure 1.

A) Left, Western blot analysis of NMIIB, RPTPα and HA-tagged RPTPα expression in cells transfected with a control siRNA (Ctrl siRNA); an siRNA against RPTPα alone; and RPTPα siRNA together with either siRNA resistant wild type RPTPα (HA-mRPTPα) or its phosphatase deficient mutant (HA-mRPTPα C433S,C723S). GAPDH was used as a

loading control. Right, anti-HAimmunofluorescence of RPTPα KD cells transiently expressing either wild type HA-mRPTPαor HA-mRPTPα^{C433S,C723S}. The same cells were co-stained with fluorescently labeled phalloidin (F-actin).

B) Average FRET/YFP emission ratios at the ZA in cells expressing SFK-Bio-tK alone (SFK-Bio-tK), co-expressing SFK-Bio-tK with c-Src-mCherry (SFK-Bio-tK+wt c-Src) or expressing SFK-Bio-tK alone and treated with PP2 (25 μM, 1h). Data are means ±SEM for at least 25 images (~90-100 cells) per condition. ****; $p<0.0001$, One-Way ANOVA.

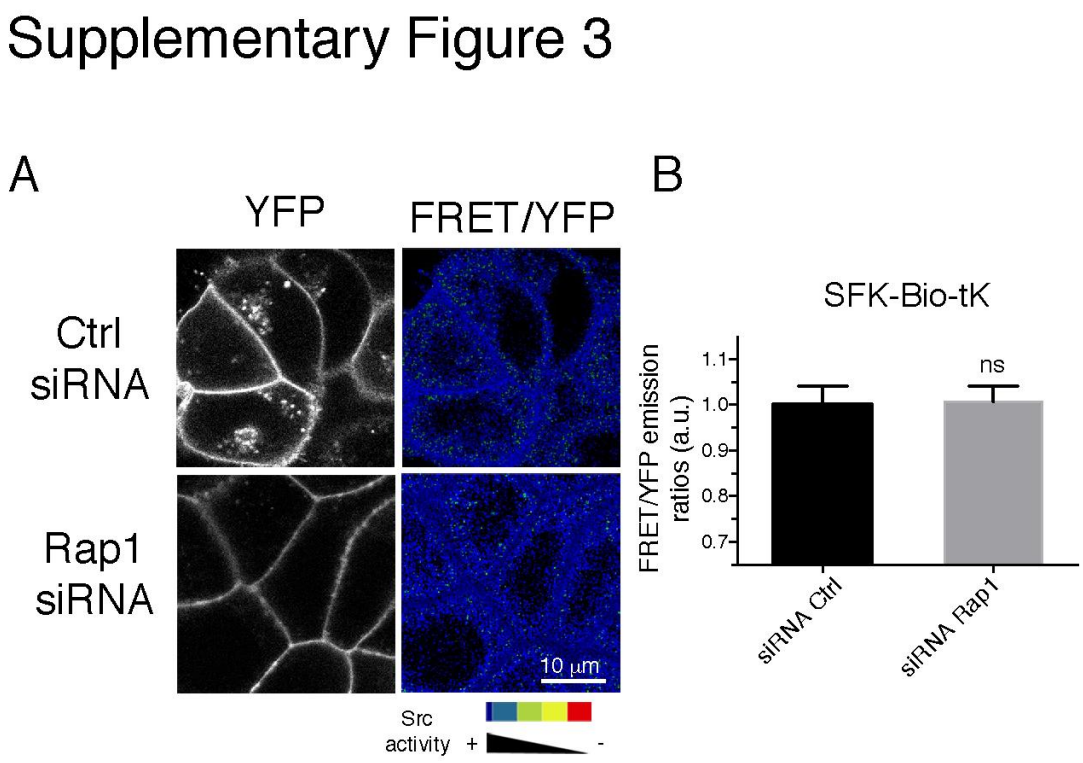
Supplementary Figure 2



Supplementary Figure 2.

A) Western blot analysis of NMIIB and RPTPα in cells transfected with a control siRNA or a siRNA against RPTPα and treated or not with PP2 (25 μM, 1h). GAPDH was used as a loading control.

B-D)Western blot analysis of E-cadherin (B), NMIIB (C) and β-actin (D) expression in Control, c-Src KD and c-Yes KD cells. GAPDH was used as a loading control.



Supplementary Figure 3.

FRET/YFP emission ratio images (A) and quantitation (B) for the SFK-Bio-tK FRET biosensor in control cells and cells transfected with a Rap1 siRNA. Data are means ±SEM for at least 25 images (~90-100 cells) per condition.ns, not significant. Two-tailed t-test.