Supplemental Figure Legends

Supplemental Figure I

A. Representative blot showing IP protocol on protein lysed from HEK293-T cells expressing neuronal WT-Ca_L plated onto either fibronectin (FN) or BSA-coated dishes. α_{1C}-Ca_L was detected after IP using anti-β_1 integrin, anti-c-Src, or anti-Tyr-Pi Ab but only in cells expressing WT-Ca_L when plated onto FN-coated dishes (lanes 1, 2, and 3 respectively), not in cells expressing WT-Ca_L when plated onto BSA-coated dishes (lanes 6, 7, and 9, respectively).

B. Representative blot showing co-IP protocol on protein lysed from arteriolar smooth muscle (pulled down with anti-α_{1C}-Ca_L). The same blot in **Fig. 3A** after stripping and reprobing for α_{1C}-Ca_L. Immunoprecipitated α_{1C}-Ca_L was observed in arterioles independent of incubation with FN (lanes 1 and 2 vs. lanes 5 and 6, respectively). Absence of immunoprecipitated α_{1C}-Ca_L by rabbit IgG (lane 7) indicates binding specificity.

Supplemental Figure II

An increased amount of truncated α_{1C}-Ca_L used for IP does not alter the reduced association between truncated α_{1C}-Ca_L and β_1 integrin or c-Src.

A. Representative blot comparing WT-α_{1C}-Ca_L and truncated α_{1C}-Ca_L (2-fold amount of total protein) immunoprecipitated with either anti-c-Src, anti-phosphorylated-tyrosine (Tyr-Pi), or anti-β_1 integrin Ab, and probed for α_{1C}. Relatively lower amounts of α_{1C}-Ca_L were still observed in cells expressing truncated α_{1C}-Ca_L, when immunoprecipitated with anti-c-Src, anti-Tyr-Pi, or anti-β_1 integrin Ab (lanes 1, 2, and 3, respectively). **B**: The same blot in **A** after stripping and re-probing for β_1 integrin **C**: Summary graph showing the relative levels of immunoprecipitated α_{1C} in WT- or increased amount of truncated α_{1C}-Ca_L. Values were obtained as described in Methods, and based on the average of at least three experiments.

*p<0.05 vs.WT + anti-β_1 integrin Ab; **p<0.01 vs. WT + anti-Tyr-Pi Ab;*p<0.05 vs. WT + anti-c-Src Ab.

Supplemental Figure III

A. The same blot as in **Fig**. **4A** after stripping and re-probing for c-Src as a control for IP and immunoblotting.

Representative blot comparing WT- and truncated α_{1C}-Ca_L immunoprecipitated with either anti-c-Src, anti-β_1 integrin Ab, or mouse IgG and probe for c-Src. The presence of c-Src was observed in lysates immunoprecipitated with anti-c-Src (lanes 2 and 7) or anti-β_1 integrin Ab (lanes 1 and 8) but not with mouse IgG (lanes 3 and 6).

B. The same blot as in **Supplemental Fig**. **IIA** after stripping and re-probing for c-Src as a control for IP and immunoblotting.

Representative blot comparing WT-α_{1C}-Ca_L and truncated α_{1C}-Ca_L (2-fold amount of total protein used for IP) immunoprecipitated with either anti-c-Src, anti-phosphorylated-tyrosine (Tyr-Pi), or anti-β_1 integrin Ab and probed for c-Src. c-Src was detected when immunoprecipitated with anti-c-Src, anti-Tyr-Pi, or anti-β_1 integrin Ab (lanes 1, 2, and 3, or lanes 8, 7, and 6 respectively). No substantial differences were observed in the levels of c-Src in HEK293-T cells over-expressing truncated α_{1C}-Ca_L compared to WT α_{1C}-Ca_L.

Supplemental Figure IV

A. The same blot as in **Fig**. **5A** after stripping and re-probing for c-Src as a control for IP and immunoblotting.

Representative blot comparing WT α_{1C}-Ca_L and $S^{1901}A/Y^{2122}F$ α_{1C}-Ca_L immunoprecipitated with either anti-c-Src, anti-Tyr-Pi, or anti-β_1 integrin Ab, and probe for c-Src. No substantial differences were observed in the protein level of c-Src in HEK293-T cells over-expressing $S^{1901}A/Y^{2122}F$ α_{1C}-Ca_L compared to WT α_{1C}-Ca_L (lanes 1, 2, and 3, vs. lanes 8, 7, and 6, respectively).

B. The same blot in **Fig**. **6A** after stripping and re-probing for c-Src as control for IP and immunoblotting. Representative blot comparing WT α_{1C}-Ca_L and ΔP1/ΔP2 α_{1C}-Ca_L immunoprecipitated with anti-c-Src, anti-α_5 integrin, or anti-β_1 integrin Ab and probe for α_{1C}-Ca_L (lanes 4 and 8, lanes 3 and 7, and lanes 2 and 6, respectively). No substantial differences were observed in the protein level of c-Src in cells expressing ΔP1/ΔP2 α_{1C}-Ca_L, compared to WT α_{1C}-Ca_L.

Supplemental Figure V

Immunofluorescence confocal images showing cells stained with either anti-mouse IgG (row M; panels a, b, and c), anti-rabbit IgG (row R; panels, d, e, and f), the combination of both IgG (row M+R; panels g, h, and i) or no staining (panels j, k, and l). No specific fluorescence was observed when cells were excited with either 488 nm or 555 nm laser lines. These images assure the staining specificity of our results and minimal bleed-through of the secondary antibodies to interfere with detection and data analysis. Magnification: 63X oil; scale bar = 10 μm.