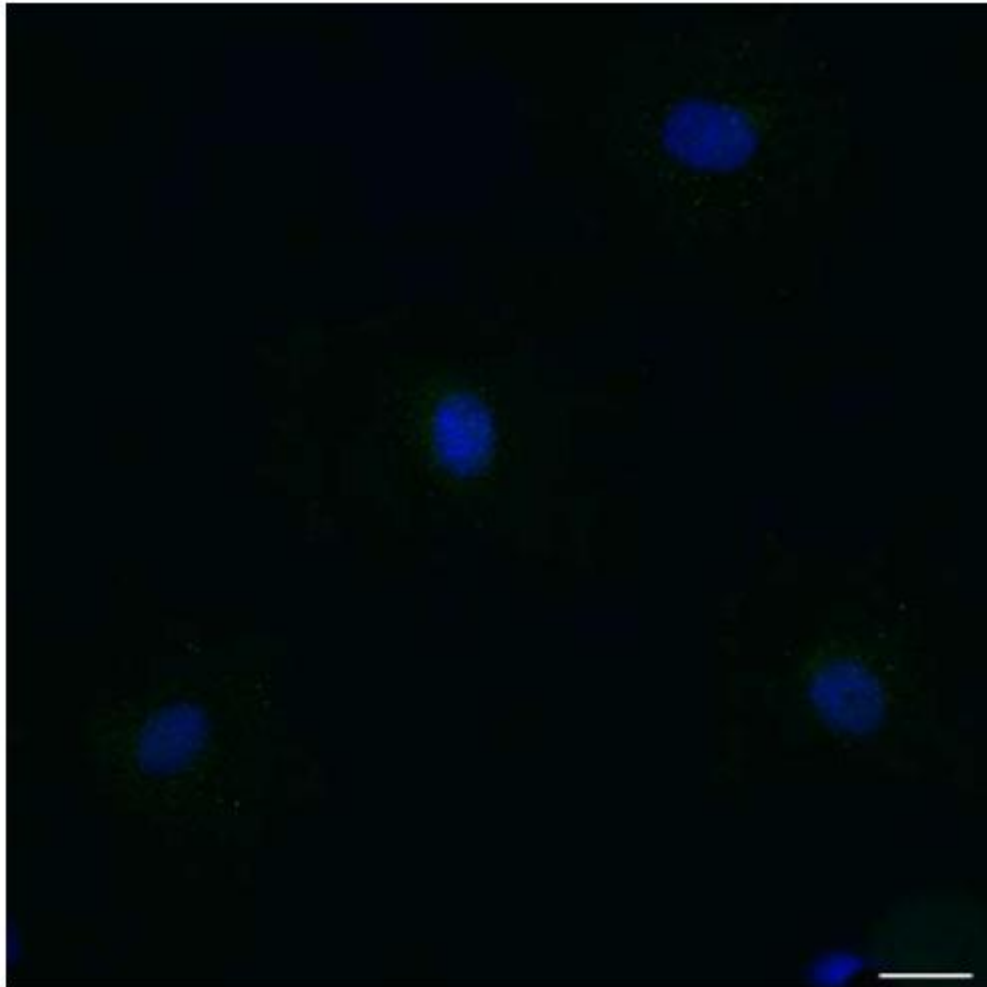
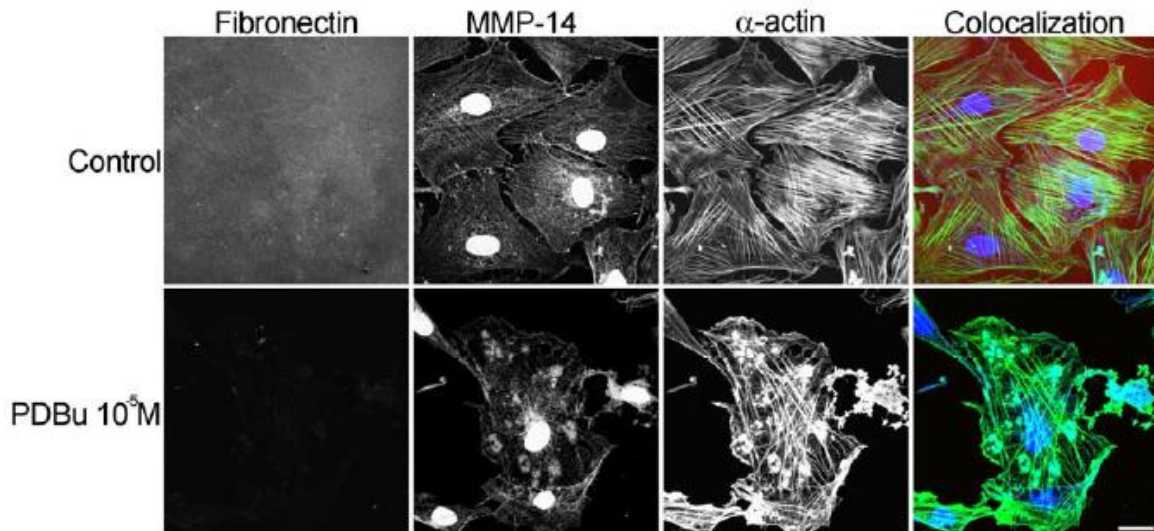


Supplementary Information

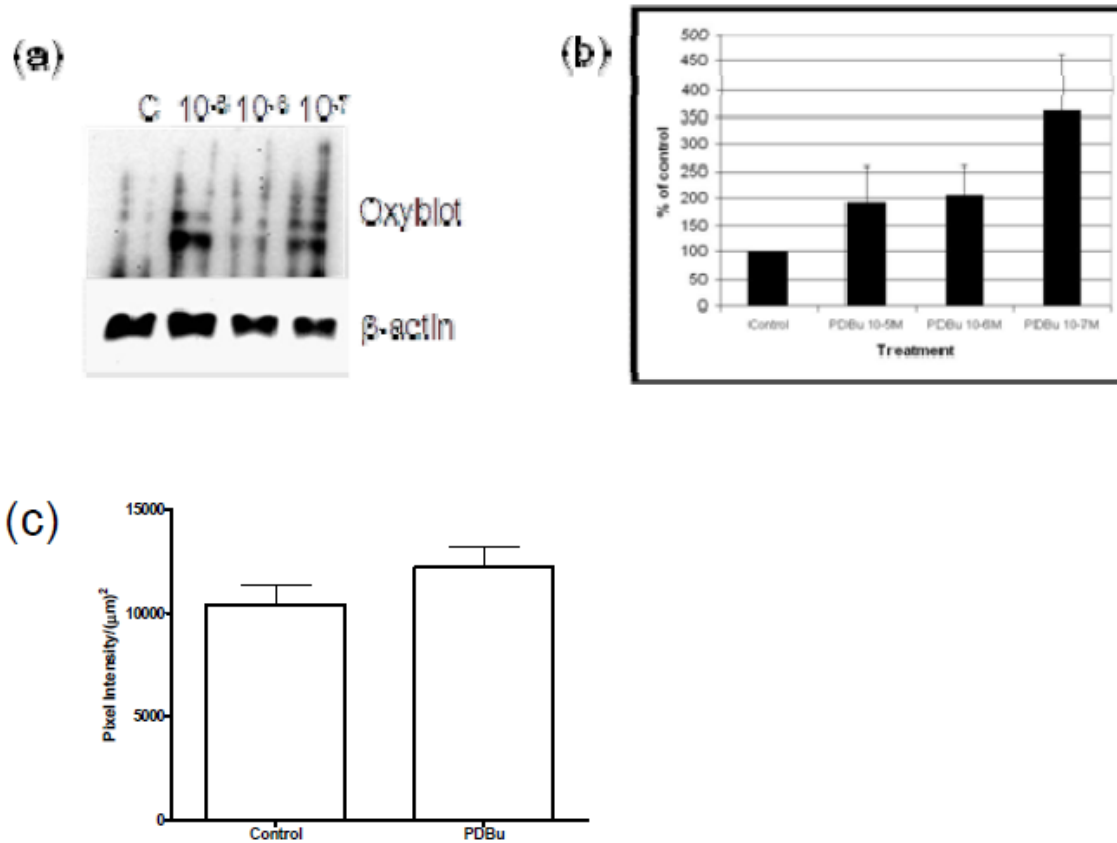
Supplemental Figure 1: Non-immune Alexa 488 rabbit IgG incubated overnight at 4 °C to evaluate specificity of rabbit antibodies. Cells were contracted with PDBu (10^{-5} M) to determine non-specific staining at the podosome. Note that a little perinuclear staining could be detected using the same settings for analysis of MMPs. Nuclei were stained with DAPI. Scale bar represents 20 μ m.



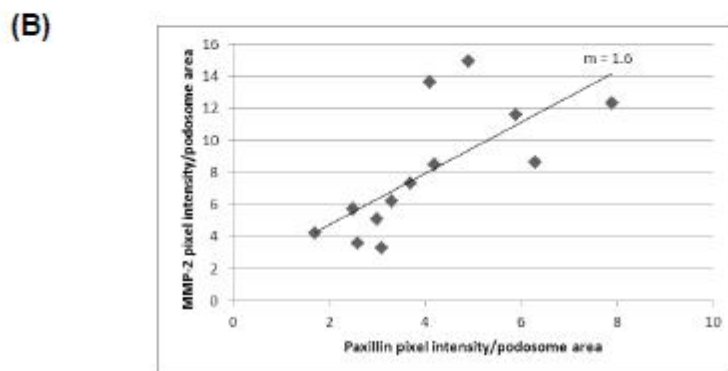
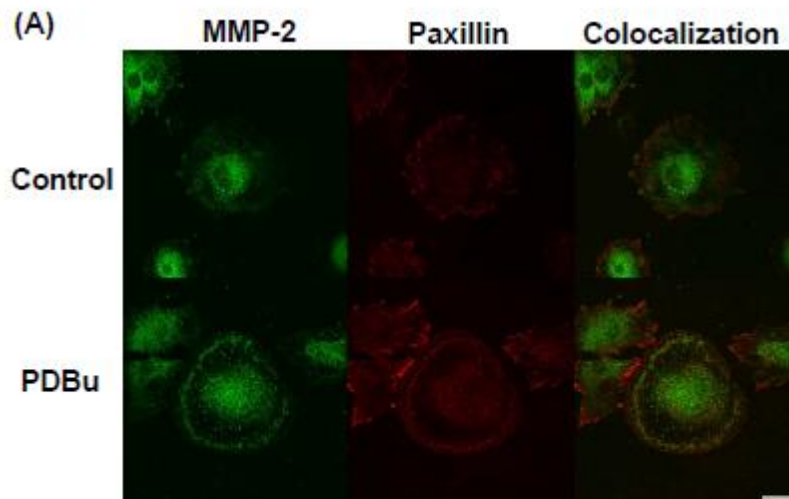
Supplemental Figure 2: MMP-14 and α -actin colocalization in A7r5 cells on a thinly-coated rhodamine-conjugated fibronectin substrate. Note that MMP-14 behaves similarly to MMP-2 and -9 in the A7r5 smooth muscle cell. Cell study was performed in triplicate and at least 30 cells were observed for this phenotype. Red represents fibronectin staining, green represents α -actin staining, and blue represents MMP-14 staining. Scale bar represents 20 μ m.



Supplemental Figure 3: Detection of protein carbonyls using the Oxyblot method. In (a), Western blot of protein carbonyls and β -actin was used as a loading control. In (b), quantitative summary of 3 independent experiments indicating an increase in oxidative stress under various concentrations of PDBu. In (c), dihydroethidium (DHE) staining of A7r5 cells under control and PDBu-stimulated conditions (10^{-5} M). Superoxide accumulation was increased but not significant ($P = 0.22$).



Supplemental Figure 4: (A) Colocalization of MMP-2 and paxillin in A7r5 cells and (B) slope analysis of pixel intensity of the two proteins in podosomes. Data indicates that localization of the two proteins were less than the MMP-9/ α -actin interaction ($m = 1.6$). Ten different cells were examined and 13 different podosomes were examined under high magnification (1000X). Green represents MMP-2 staining and red represents paxillin staining under control and PDBu stimulating conditions (10^{-5} M). Scale bar represents 20 μ m.



Supplemental Figure 5: Alpha-actin staining of A7r5 cells under PDBu- and pre-treatment of colchicine conditions. **(A)** Colchicine was given at 0.1 μM for 30 minutes before the addition of PDBu (10^{-5} M). **(B)** Percent of cells displaying podosomes were evaluated under both conditions and was not found to be significantly different. Scale bar represents 20 μm .

