Supplementary Movie 1 | Time course (6 frames per second) from widefield fluorescence microscopy showing thrombin (magenta) labelled hMSCs in 2D over a period of 6 hours imaged at 10 minute intervals highlighting gradual internalisation of [rh_sc_thrombin][ox890] (top) and rh_sc_thrombin (bottom). Scale bar represents 100 µm.

Supplementary Movie 2 | Time course (5 frames per second) from confocal fluorescence microscopy (z-plane top; x-y plane bottom) of [rh_sc_thrombin][ox890] (magenta) labelled hMSCs supplemented with 10 mg.mL-1 fibrin gel comprising 1 wt.% Alexa 488 conjugated fibrinogen (green). Images were collected immediately after fibrinogen addition and at 30 second intervals for a period of 20 minutes, highlighting fibrin formation emanating from the cell surface. Scale bar represents 100 µm.

Supplementary Movie 3 | 3D projection (25 frames per second) of 1 mg.mL-1 fibrin gel comprising 2 wt.% Alexa 594 conjugated fibrinogen (red) and incorporating [sc_thrombin][ox890] labelled hMSCs stained with Hoechst 33342 (blue). Projection represents 111 slices each 116 μ m (x) by 116 μ m (y) at 0.1 μ m (z) intervals collected after 60 minutes highlighting cell associated fibrin formation.

Supplementary Movie 4 | Z projection (14 frames per second) of 6 mg.mL-1 fibrin gel comprising 2 wt.% Alexa 594 conjugated fibrinogen (red) incorporating [sc_thrombin][ox890] labelled hMSCs stained with Hoechst 33342 (blue). Projection (top to bottom) represents 91 slices each 116 μ m (x) by 116 μ m (y) at 0.5 μ m (z) intervals.

intervals.