

Figure S1. Timeline of experimental imaging protocol. Under isoflurane anesthesia, ¹¹C-methionine is injected and a dynamic 30min PET acquisition is performed. At the conclusion of PET scan, ^{99m}Tc-sestamibi is injected and a PET coregistration low dose CT is acquired prior to moving to the SPECT-CT camera. A SPECT coregistration low dose CT is then completed, followed by a 7-pinhole SPECT acquisition (30s/view, 52 views) for ^{99m}Tc-sestamibi, 30 min after tracer injection. t indicates time (in minutes)

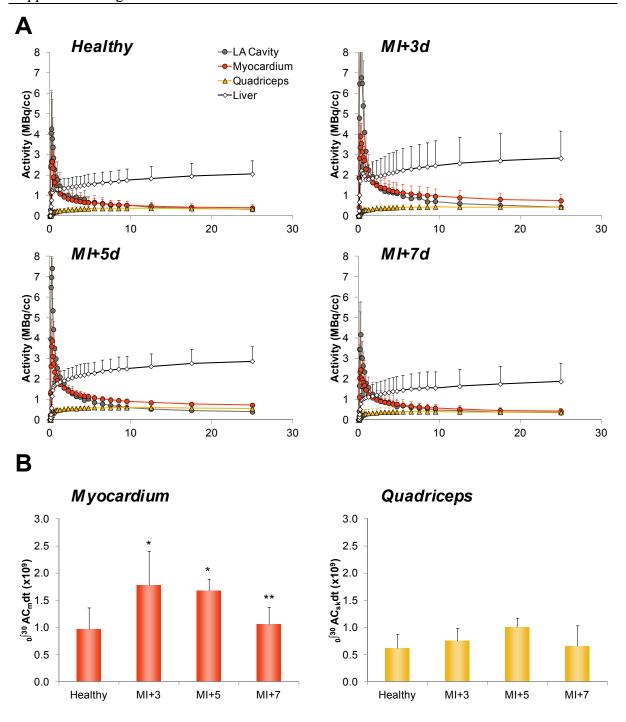
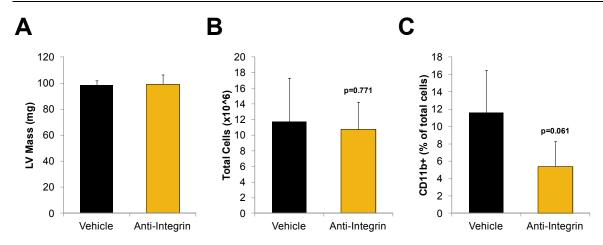


Figure S2. Dynamic uptake and retention of ¹¹C-methionine in myocardium. **A**, Time-activity curves in myocardium, skeletal muscle (quadriceps femoris) and blood pool in healthy mice and serially after MI. **B**, Area under the curve for myocardium and skeletal muscle indicates higher activity in myocardium in acute stages after MI. * p<0.05 to control, ** p<0.05 to control and MI+3d, repeated measure.



Figures S3. Flow cytometry assessment of left ventricular cells 3d after MI and anti-integrin therapy. A, Left ventricle weight is unaffected by treatment. B, Total cells isolated from left ventricle digest is statistically comparable between treated and untreated mice. C, CD11b-expressing cells as a percentage of total isolated cells. p values indicated, two tailed t-test.