

# Figure S1

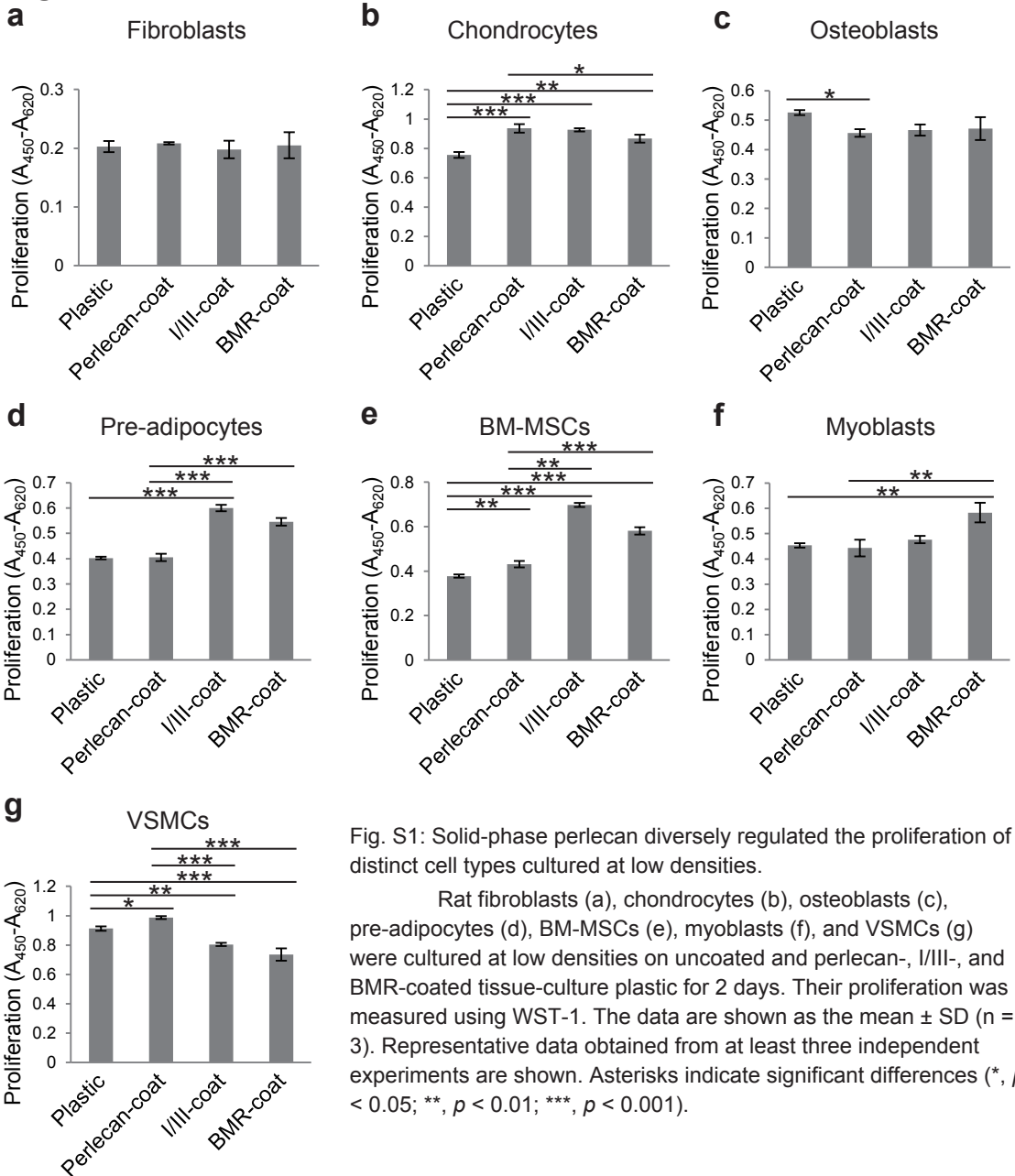


Fig. S1: Solid-phase perlecan diversely regulated the proliferation of distinct cell types cultured at low densities.

Rat fibroblasts (a), chondrocytes (b), osteoblasts (c), pre-adipocytes (d), BM-MSCs (e), myoblasts (f), and VSMCs (g) were cultured at low densities on uncoated and perlecan-, I/III-, and BMR-coated tissue-culture plastic for 2 days. Their proliferation was measured using WST-1. The data are shown as the mean  $\pm$  SD ( $n = 3$ ). Representative data obtained from at least three independent experiments are shown. Asterisks indicate significant differences (\*,  $p < 0.05$ ; \*\*,  $p < 0.01$ ; \*\*\*,  $p < 0.001$ ).

## Figure S2

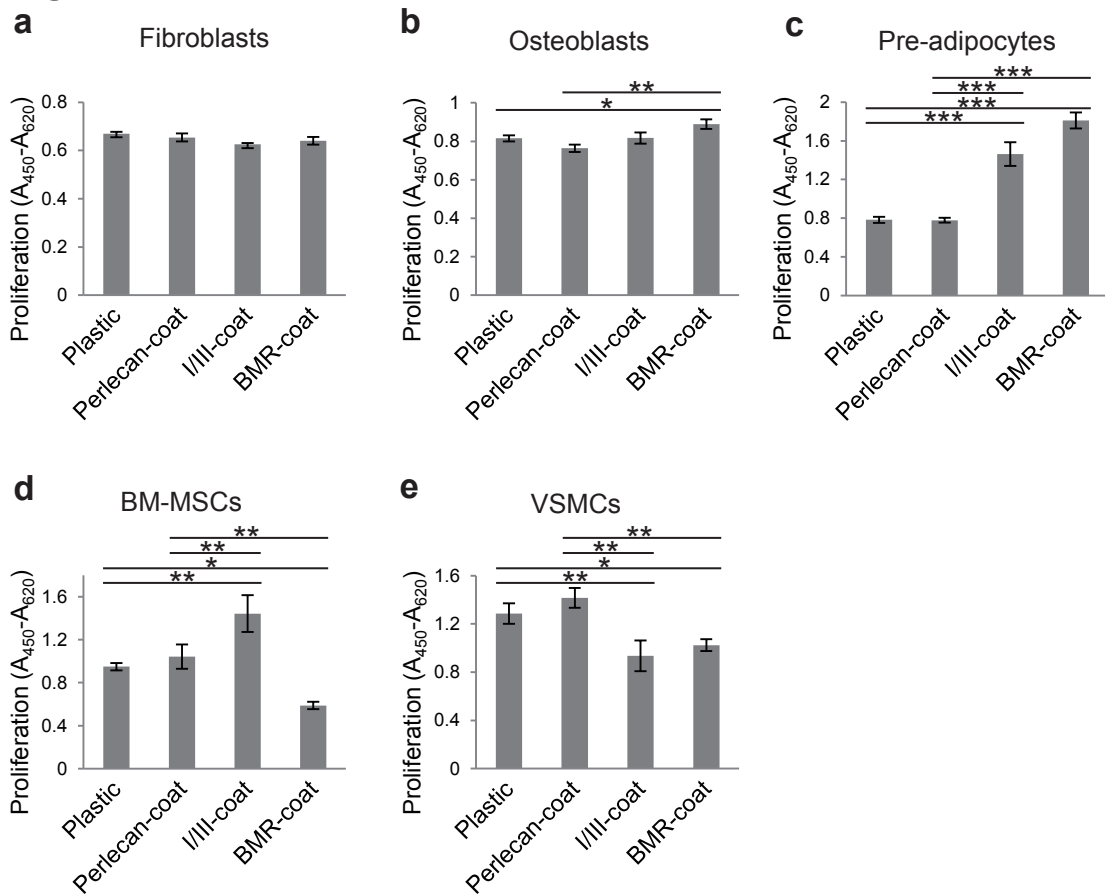


Fig. S2: Solid-phase perlecan diversely regulated the proliferation of distinct cell types cultured at high densities.

Rat fibroblasts (a), osteoblasts (b), pre-adipocytes (c), BM-MSCs (d), and VSMCs (e) were cultured at high densities on uncoated and perlecan-, I/III-, and BMR-coated tissue-culture plastic for 2 days. Their proliferation was measured using WST-1. The data are shown as the mean  $\pm$  SD ( $n = 3$ ). Representative proliferation data obtained from at least three independent experiments are shown. Asterisks indicate significant differences (\*,  $p < 0.05$ ; \*\*,  $p < 0.01$ ; \*\*\*,  $p < 0.001$ ).

# Figure S3

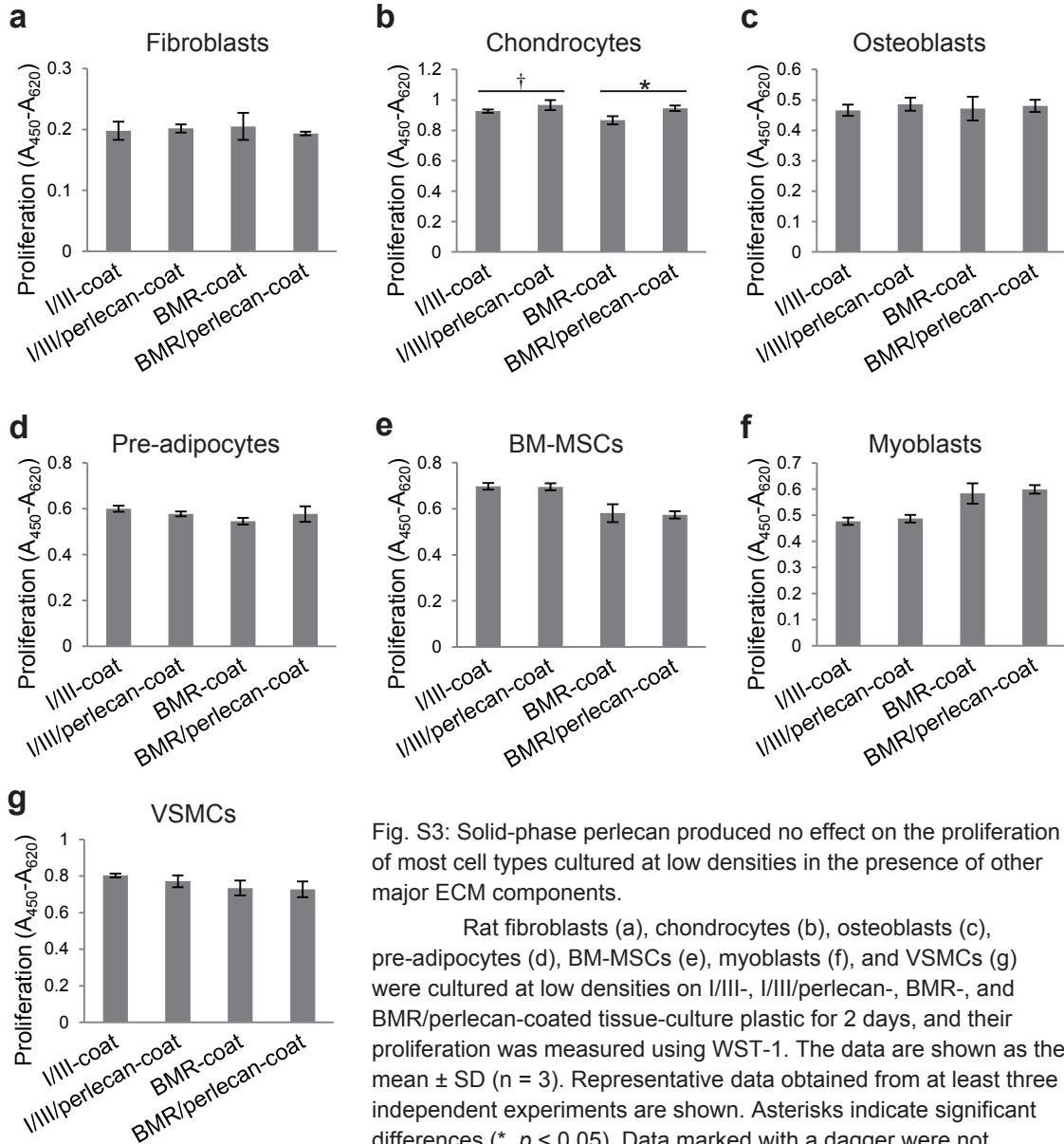


Fig. S3: Solid-phase perlecan produced no effect on the proliferation of most cell types cultured at low densities in the presence of other major ECM components.

Rat fibroblasts (a), chondrocytes (b), osteoblasts (c), pre-adipocytes (d), BM-MSCs (e), myoblasts (f), and VSMCs (g) were cultured at low densities on I/III-, I/III/perlecan-, BMR-, and BMR/perlecan-coated tissue-culture plastic for 2 days, and their proliferation was measured using WST-1. The data are shown as the mean  $\pm$  SD ( $n = 3$ ). Representative data obtained from at least three independent experiments are shown. Asterisks indicate significant differences (\*,  $p < 0.05$ ). Data marked with a dagger were not significant, but were reproducible.

## Figure S4

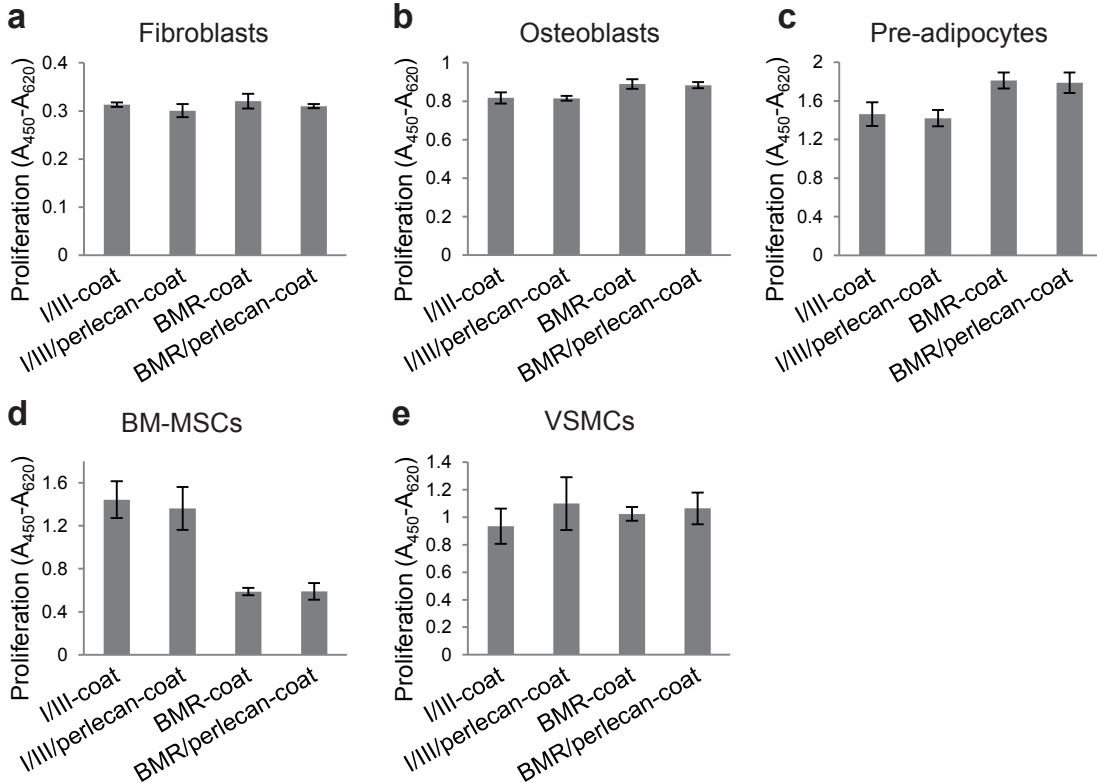


Fig. S4: Solid-phase perlecan produced no effect on the proliferation of cells cultured at high densities in the presence of other major ECM components.

Rat fibroblasts (a), osteoblasts (b), pre-adipocytes (c), BM-MSCs (d), and VSMCs (e) were cultured at high densities on I/III-, I/III/perlecan-, BMR-, and BMR/perlecan-coated tissue-culture plastic for 2 days, and their proliferation was measured using WST-1. The data are shown as the mean  $\pm$  SD ( $n = 3$ ). Representative data obtained from at least three independent experiments are shown.