ESM Fig. 3: VEGF-A promotes beta cell proliferation and protects non-cell autonomously, independent of HGF. (a) Flt1, Kdr and Flt4 transcript expression by beta cells (beta), isolated from MIP<sup>RFP</sup> transgenic mice. Mouse spleen and MS1 (MILE SVEN1) cells served as positive controls. Blank= no template control. Actb= beta actin. (b) Immunostaining for FLT1, KDR and FLT4 of RIP<sup>hTATetO<sup>VEGF</sup></sup> pancreas demonstrates absence of VEGF-receptor expression by beta cells (green; stained for insulin). Scale bars are 100 micrometer.
ESM Fig. 3bis: VEGF-A promotes beta cell proliferation and protects non-cell autonomously, independent of HGF. (c) In vitro proliferation and viability assay: CD1 mouse beta cells were cultured during 3 days with or without 100 ng/ml VEGF-A (hatched bars), 25 ng/ml HGF (grey bars) or a combination of both (black bars). Alloxan (0, 0.2 and 1 mmol/l) was added to the culture medium at day 2 of culture and cell number per well was evaluated 24 hours later. Control medium: white bars. (d) Hgf transcript expression level by islets of RIPrtTA_TetOTetOVEGF-A mice after receiving DOX during 3 or 7 days. Results are expressed relative to RIPrtTA_TetOVEGF-A mice not receiving DOX (=1).