SUPPLEMENTAL MATERIAL

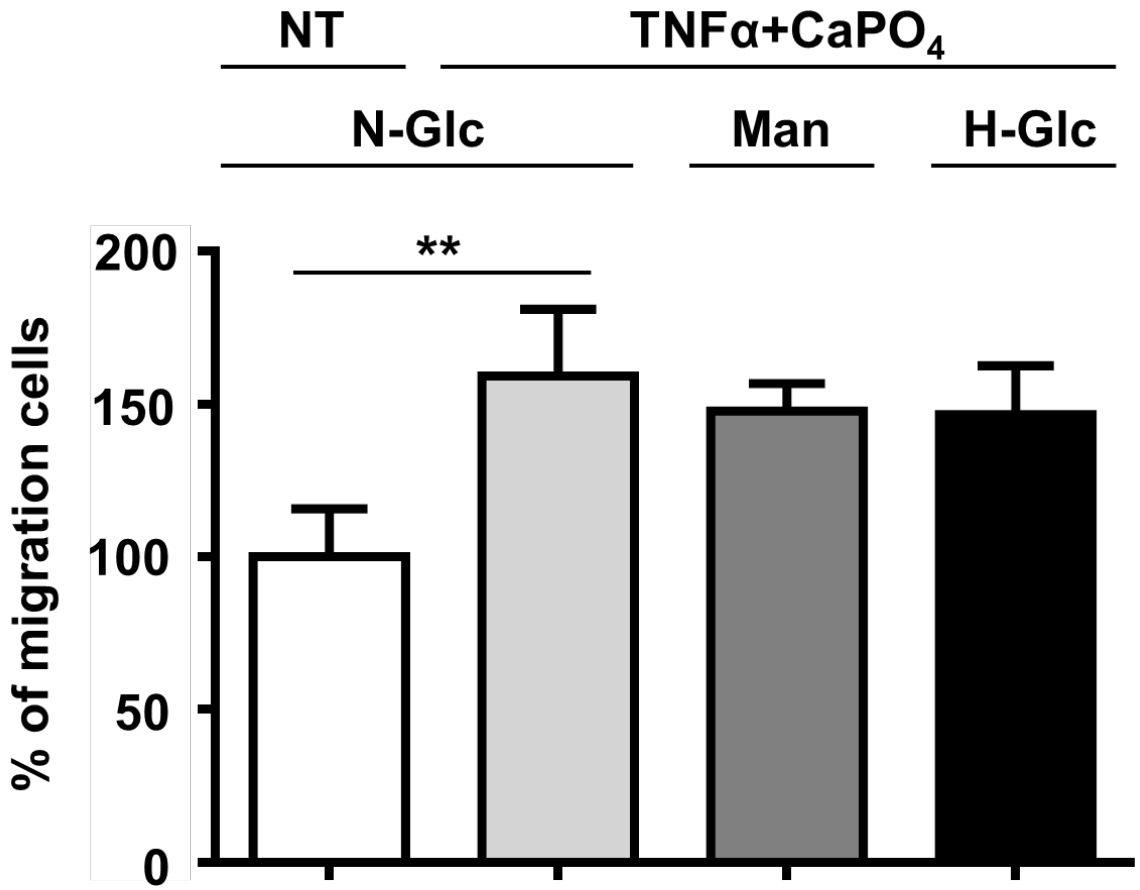

Figure S1. Effect of high-glucose treatment on cell migration

RAW264.7 cells (4×10^3 cells) were imcubated for 6h under normoglycemic conditions (N-Glc, 5.5 mM glucose) without TNFα+CaPO4 (no treatment [NT] control), N-Glc with TNFα+CaPO4, normoglycemic conditions with high osmotic pressure (Man, 5.5 mM glucose and 10.5 mM mannitol) and TNFα+CaPO4, and hyperglycemic conditions (H-Glc, 15.5 mM glucose) with TNFα+CaPO4 with a Cell migration BioGel assay (Enzo Life Science, Farmingdale, NY, USA) according the manufacture's instruction.

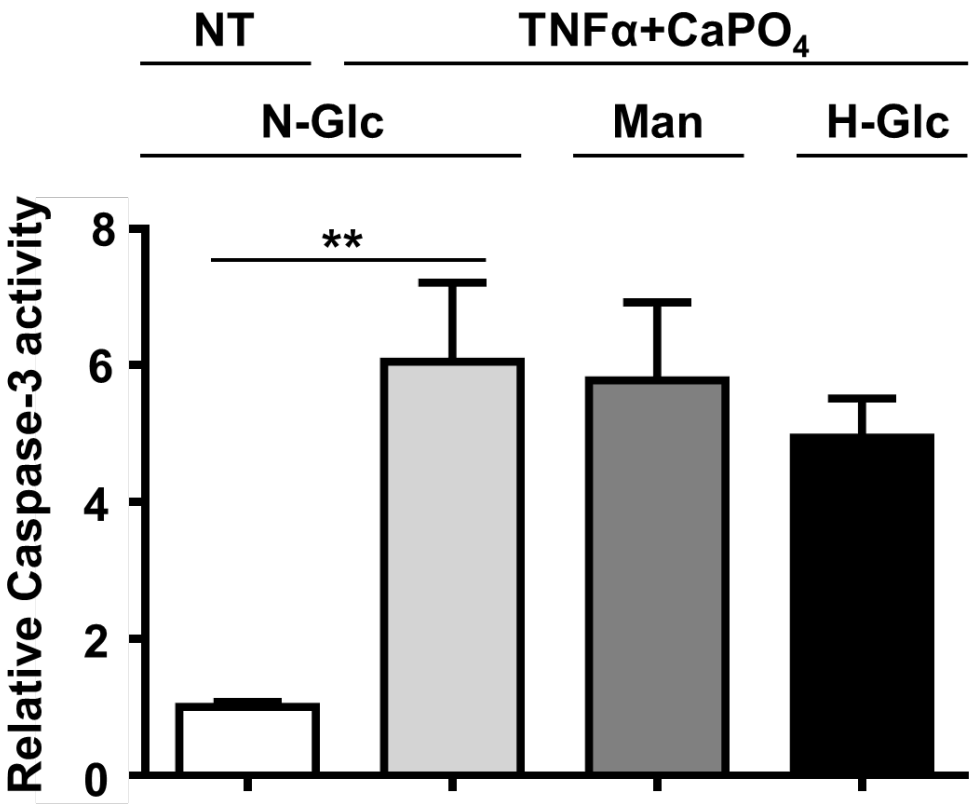

Figure S2. Effect of high-glucose treatment on caspase-3 activity on smooth muscle cells

MOVAS (murine smooth muscle cell) were incubatd for 48h under normoglycemic conditions (N-Glc, 5.5 mM glucose) without TNFα+CaPO4 (no treatment [NT] control), N-Glc with TNFα+CaPO4, normoglycemic conditions with high osmotic pressure (Man, 5.5 mM glucose and 10.5 mM mannitol) and TNFα+CaPO4, and hyperglycemic conditions (H-Glc, 15.5 mM glucose) with TNFα+CaPO4. And then caspase-3 activity was measured in cell lysates using an ApoAlert caspase colorimetric assay kit (Clontech, Mountain View, CA, USA).