

Figure S1: Effect of siRNA mediated knockdown on apoptosis and migration

A) Apoptosis was determined after transfection with *NRP1* siRNA or nt siRNA. One sample t-test, n=5; B) Migration was determined after transfection with *NRP1* siRNA or nt siRNA. One sample t-test, n=4;

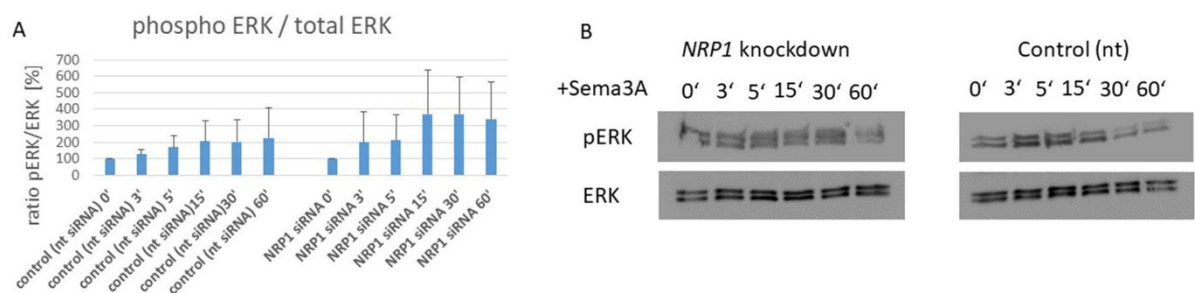


Figure S2: Effect of Sema3A on ERK phosphorylation in OA chondrocytes

A) Relative protein expression of pERK and ERK was determined densitometrically. The relative ratio of pERK / ERK is shown, n=3; B) Representative Western Blot image of phospho-ERK (pERK) and total-ERK (ERK) protein after stimulation of *NRP1* knockdown and control cells (nt) with 100ng/ml Sema3A for 0, 3, 5, 15, 30 and 60 minutes.