Receptor-Ligand Interaction Mediates Targeting of Endothelial Colony Forming Cell-derived Exosomes to the Kidney after Ischemic Injury

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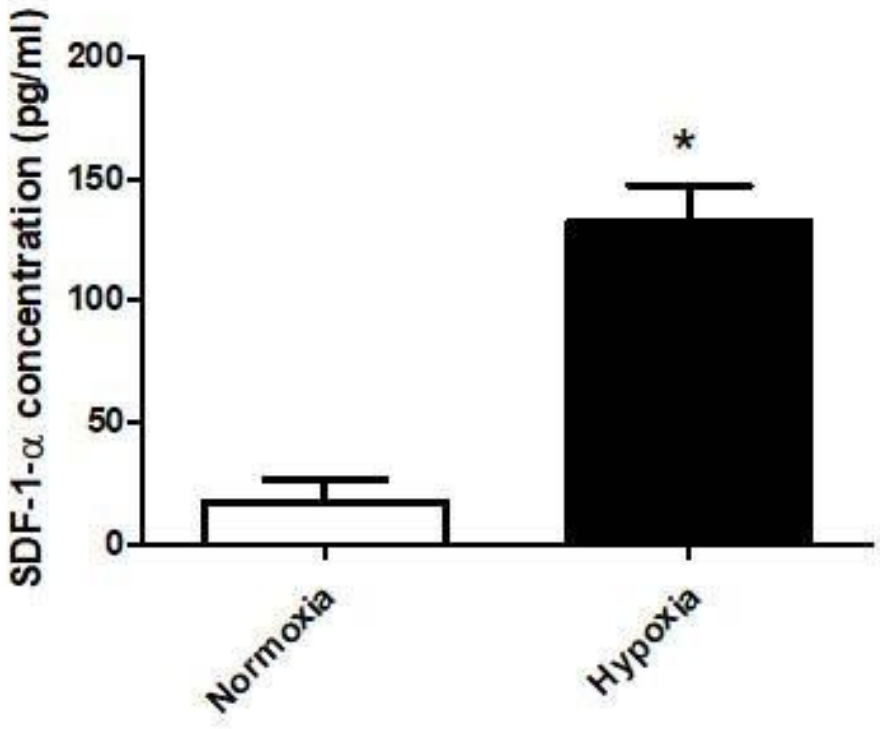
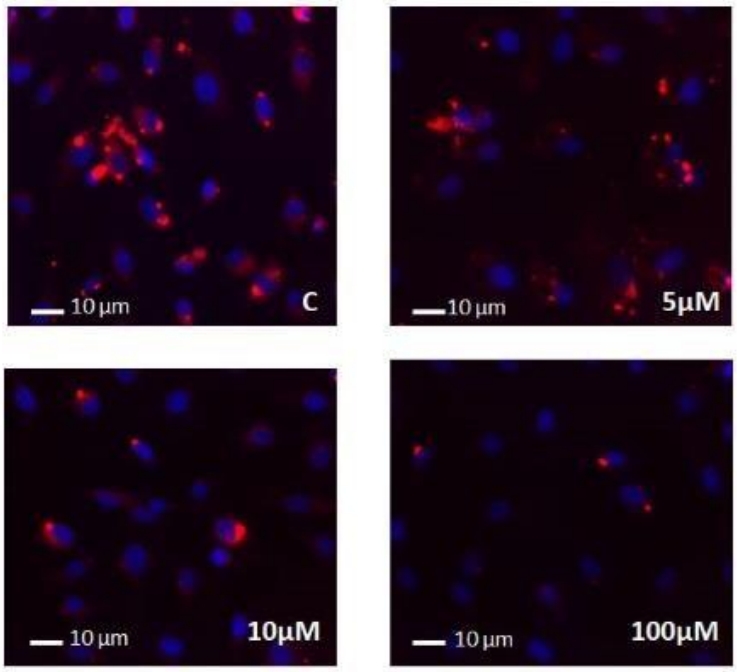
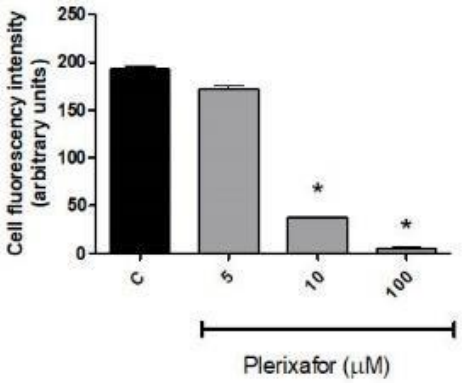


<u>Supplementary Figure 2 (S2):</u> Hypoxia increases secretion of stromal cell-derived factor (SDF)-1α in cultured endothelial cells.

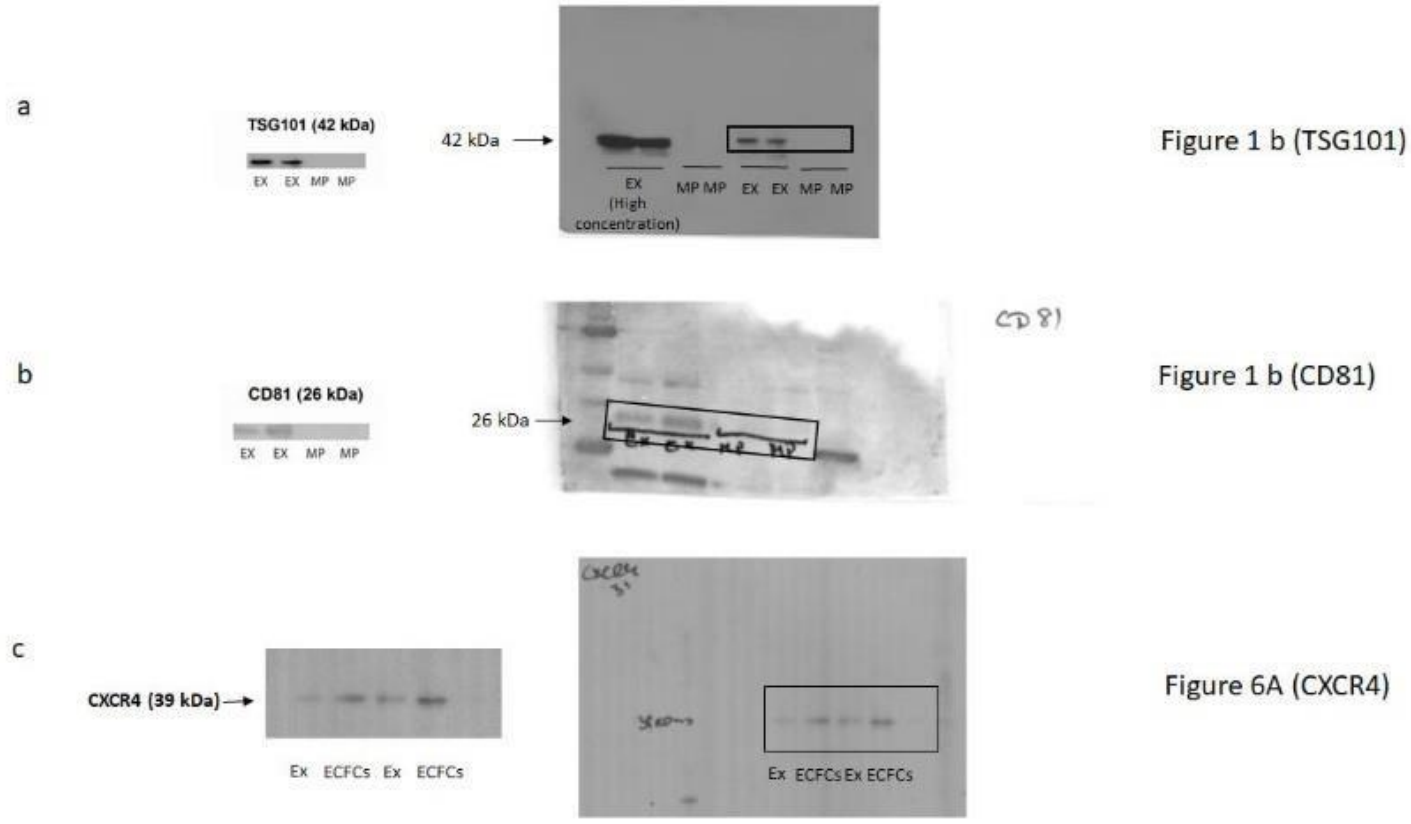
Graph depicts SDF-1α levels in cell culture supernatants from normoxic HUVECs (Normoxia) and HUVECs subjected to 24 hrs of hypoxia (Hypoxia). *P<0.001 vs Normoxia, by Student t-test, n=5.





<u>Supplementary Figure 3 (S3):</u> Dose-dependent inhibition of exosome uptake into endothelial cells by the CXCR4 antagonist plerixafor.

Cultured HUVECs were incubated with 20 µg/ml of PKH26-labeled exosomes in the presence or absence of plerixafor. (C) Untreated HUVECs after incubation with PKH26 exosomes for 6 hrs, (5) + 5 µM plerixafor, (10) + 10 µM plerixafor and (100) + 100 µM plerixafor. *P<0.001 vs C, by Student t-test, n=4.



Supplementary Figure 4 (S4): Images of entire immunoblots depicting TSG101 (a), CD81 (b) in exosome (EX) and microparticle (MP) preparations (see Figure 1), and CXCR4 in ECFCs and their exosomes (Fig. 4c).