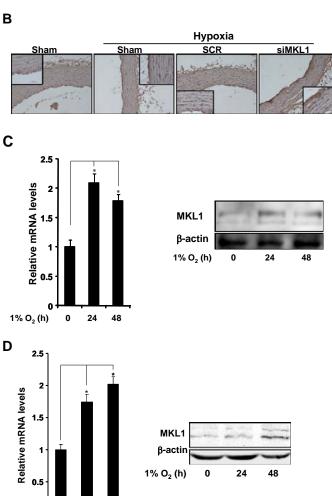


1% O<sub>2</sub> (h)

0



**Figure S1:** (**A, B**) Sprague Dawley rats were injected with lentiviral particles carrying shRNA targeting MKL1 or random shRNA (SCR) and induced to develop HPH as described under *Methods*. MKL1 mRNA (A) and protein (B) levels in aortic arteries were assessed by qPCR and immunohistochemistry. N=5 mice for each group (**C, D**) A10 cells (C) and HPASMCs (D) were exposed to 1% O<sub>2</sub> and harvested at indicated time points. mRNA and protein levels of MKL1 were measured by qPCR and Western.