

CHUA et al. Supplementary Material

SUPPLEMENTARY FIGURE LEGENDS

Fig. S1. HIF-1 α protein stabilization is not altered by modulating intracellular ROS

- (a) 143B cells were incubated at either 21% O₂ or 1% O₂ for 4 hours with glucose oxidase at concentration of 25, 100 and 200 mU/ml followed by analysis of HIF-1 α by Western blotting.

- (b) 143B control cells (open bar) and cytoplasmic catalase (CYTO-CAT) (filled bar) overexpressing cells were stained with 20 μ M 2'-7'-Dichlorodihydrofluorescein diacetate (DCFDA) dye for 15 min prior to H₂O₂ (200 μ M) treatment for 5 min. The difference in fluorescence before and after the H₂O₂ treatment was determined in control and CYTO-CAT cells. (n = 3, mean \pm SEM). 143B cells that overexpressed with cytoplasmic or mitochondrial catalase (CYTO- CAT or MITO-CAT) or control vector cells were subjected to 21% O₂ or 1% O₂ and HIF-1 α was detected by Western blotting.

Fig. S2. Superoxide is not involved in the regulation PHD activity *in vivo*

HEK293 cells treated with diethyldithiocarbamate (DCC) (1 mM), MnTBAP (100 μ M), N-acetylcysteine (NAC) (10 mM) and ascorbate (2.5 mM) were exposed to either 21% or 1% O₂. HIF-1 α protein abundance was determined by Western blotting.

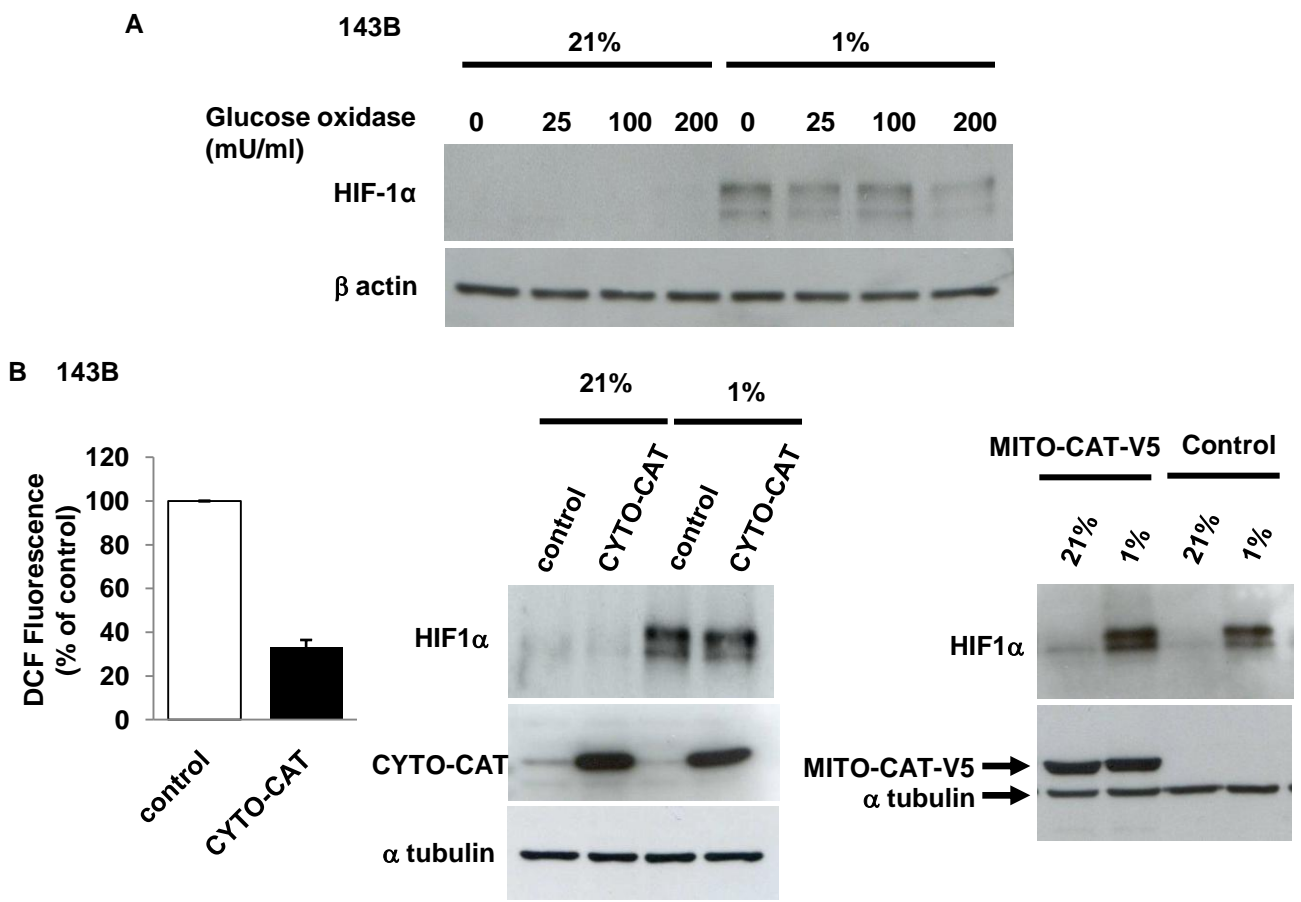


Fig. S1

