

Type of PH	Organism	Nox mRNA	Nox Protein	Intervention	Effect on Disease	Reference
Hypoxia, IPAH	Mouse, human	↑Nox4, No change Nox1 & Nox2	↑Nox4	Nox4 siRNA PASC	↓SMC proliferation	https://www.ncbi.nlm.nih.gov/pubmed/17585072
Hypoxia (in vitro)	Human	↑Nox4, Nox1	↑Nox4	Nox4 siRNA in PAFB	↓PAFB proliferation, ↑apoptosis	https://www.ncbi.nlm.nih.gov/pubmed/18593227
Hypoxia	Pig	-	↑Nox1, No change Nox4	Apocynin, ROS scavengers	↑PA function	https://www.ncbi.nlm.nih.gov/pubmed/19592458
Hypoxia (in vitro)	Human	↑Nox4	-	Nox4 siRNA PASC	↓SMC proliferation	https://www.ncbi.nlm.nih.gov/pubmed/19036873
Chronic Intermittent Hypoxia	Mouse	↑Nox4, p22	-	Nox2 KO	↓pulmonary hypertension	https://www.ncbi.nlm.nih.gov/pubmed/18952568
PPHN	Sheep	↑Nox2, Nox4	-	Apocynin, ROS scavengers	↑PAEC angiogenesis, decreased apoptosis	https://www.ncbi.nlm.nih.gov/pubmed/19429773
MCT, MCT/PN	Rat	↑Nox2, Nox4, no change Nox1	-	-	-	https://www.ncbi.nlm.nih.gov/pubmed/21906276
Hypoxia	Mouse, Human EC	↑Nox4	-	GKT137831 (Nox4/Nox1)	↓pulmonary hypertension, ↓PASC proliferation	https://www.ncbi.nlm.nih.gov/pubmed/22904198
MCT	RAT PASC	↑Nox1, no change Nox2, Nox4	↑Nox1	Nox1 siRNA PASC	↓SMC proliferation, migration	https://www.ncbi.nlm.nih.gov/pubmed/23706097
MCT, FHR, Sugen Hypoxia, IPAH	Rat PA, Human lung	↑Nox4, Nox2, no change Nox1	↑Nox4	GKT136901 (Nox4/Nox1), VCC588646, VCC202273	↓pulmonary hypertension, ↓remodeling/PAFB proliferation	https://www.ncbi.nlm.nih.gov/pubmed/24947524

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Hypoxia	Mouse	-	-	Nox1 KO	↑pulmonary hypertension	https://www.ncbi.nlm.nih.gov/pubmed/24233492
Hypoxia	Mouse	no change Nox2	-	Nox2 KO	↓pulmonary hypertension	https://www.ncbi.nlm.nih.gov/pubmed/16085672
MCT	Mouse	-	-	Nox4 transgenic, inducible KO	No change in pulmonary hypertension	https://www.ncbi.nlm.nih.gov/pubmed/27683617
MCT	Rat	-	↑Nox1, Nox2	Resveratrol	↓pulmonary hypertension, ↓PASM C proliferation	https://www.ncbi.nlm.nih.gov/pubmed/19597040
iPAH, hypoxia	Human, rat	-	↑Nox4	PP242 (mTOR)	↓PAremodeling, ↑SMC apoptosis	https://www.ncbi.nlm.nih.gov/pubmed/24270265
Hypoxia	Mouse	-	-	Nox2 KO	↑endothelial function	https://www.ncbi.nlm.nih.gov/pubmed/16715116
Hypoxia	Mouse, human PAEC	↑Nox4, Nox2 (HPAEC)	↑Nox4, Nox2 (HPAEC)	Mitochondrial-targeted catalase	↓pulmonary hypertension	https://www.ncbi.nlm.nih.gov/pubmed/26073127
<p>Abbreviations: Chronic intermittent hypoxia (CIH), Persistent pulmonary hypertension of newborn (PPHN), Monocrotaline (MCT), Idiopathic Pulmonary Arterial Hypertension (IPAH), Fawn Hooded Rat (FHR), Pneumonectomy (PN), Knockout (KO), Pulmonary Artery (PA), Pulmonary Artery Smooth Muscle Cells (PASM C), Pulmonary Artery Endothelial Cells (PAEC), Pulmonary Artery Fibroblasts (PAFB). Arrow represents the change of state, and ↑ represents increase while ↓ represents a decrease in expression/disease progression.</p>						