

## **Hippo pathway activation mediates chemotherapy-induced anti-cancer effect and cardiomyopathy through causing mitochondrial damage and dysfunction**

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### **SUPPLEMENTARY MATERIALS**

Table S1. Source and characteristics of antibodies used for immunoblotting

Table S2. Full list of abbreviations use in figures

**Table S1. Source and characteristics of antibodies used for immunoblotting**

<b>Protein</b>	<b>supplier</b>	<b>Lot number</b>	<b>concentration</b>	<b>MW (kDa)</b>
Mst1	CST	#3682	1:1000	59
p-Mst1	CST	#49332	1:1000	59
p-Yap	CST	#4911	1:1000	69
Yap	CST	#12395	1:1000	69
PGC-1 $\alpha$	proteintech	66369	1:1000	100
OPA1	CST	# 80471S	1:3000	80-100
Mfn1	abcam	ab104274	1:1000	84
DRP1	CST	# 8570S	1:1000	82
p53	abcam	ab26	1:1000	53
LC3A	CST	# 4599S	1:1000	14,16
Pink1	abcam	ab23707	1:500	66
Bnip3	abcam	ab10433	1:1000	30
MT-ND1	abcam	ab181848	1:5000	36
SDHA	CST	#11998	1:3000	70
COXIV	proteintech	11242-1-AP	1:4000	17
OGDH	abcam	ab137773	1:5000	116
PDH	CST	#3205	1:3000	43
Bax	CST	#2772S	1:1000	20
Bcl-2	CST	#3498S	1:1000	26
VDAC1	proteintech	10866-1-AP	1:4000	31
TFAM	abcam	ab131607	1:2000	25
GAPDH	proteintech	10494-1-AP	1:4000	36
CTGF	proteintech	23936-1	1:500	38
Yap1	santa	sc-376830	1:500	70
Tead1	santa	sc-393976	1:500	50
Tead1	CST	#12292	1:1000	50
Histone H3	Proteintech	17168-1-AP	1:3000	15
Galectin-3	abcam	ab2785	1:1000	31
NOX2	Bioss	bs-3889R	1:500	65
NOX4	Bioss	bs-1091R	1:500	64
Collagen I	Bioss	bs-0578R	1:500	130
IgG	Beyotime	A7028		

**Table S2. Full list of abbreviations used in Figures**

<b>Fig 1 Abbreviations</b>	<b>Full term</b>
Mst1	mammalian sterile-20 like kinase 1
YAP	yes-associated protein
Bax	BCL2 associated X, apoptosis regulator
Bcl-2	BCL2 apoptosis regulator
GAPDH	glyceraldehyde-3-phosphate dehydrogenase
CTL	control
DOX	doxorubicin

<b>Fig 2 Abbreviations</b>	<b>Full term</b>
VP	verteporfin

<b>Fig 3 Abbreviations</b>	<b>Full term</b>
DEG	differentially expressed gene

<b>Fig 4 Abbreviations</b>	<b>Full term</b>
nTG	non-transgenic
dnMst1-TG	dominant negative Mst1 transgenic

<b>Fig 6 Abbreviations</b>	<b>Full term</b>
PGC-1 $\alpha$	peroxisome proliferator-activated receptor $\gamma$ coactivator 1- $\alpha$
TFAM	Transcription factor A, mitochondrial
Mfn1	mitofusin 1
OPA1	optic atrophy 1, mitochondrial dynamin-related protein
Drp1	dynamin-related protein 1
Bnip3	BCL2 interacting protein 3
Pink1	PTEN induced kinase 1
LC3	microtubule associated protein 1 light chain 3 alpha
MT-ND1	NADH dehydrogenase, subunit 1 (complex I)
SDHA	succinate dehydrogenase complex flavoprotein subunit A
COX IV	cytochrome c oxidase subunit 4
OGDH	oxoglutarate dehydrogenase
PDH	pyruvate dehydrogenase
Bcl-2	BCL2 apoptosis regulator
Bax	BCL2 associated X, apoptosis regulator
VDAC1	voltage-dependent anion channel 1
GAPDH	glyceraldehyde-3-phosphate dehydrogenase

<b>Fig 7 Abbreviations</b>	<b>Full term</b>
cTnI	Cardiac troponin I
Gal-3	Galectin-3
COL1	Collagen I
CTGF	Connective tissue growth factor

<b>Fig 8 Abbreviations</b>	<b>Full term</b>
NOX2	NADPH oxidase 2

NOX4	NADPH oxidase 4
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<b>Fig 9 Abbreviations</b>	<b>Full term</b>
TEAD	TEA/ATTS domain
IP	Immunoprecipitation
IB	Immunoblot

<b>Fig 10 Abbreviations</b>	<b>Full term</b>
WTI	Wall thickening index
LVID	Left ventricular internal diameter
EF	Ejection fraction
FS	Fractional shortening