

**Supplementary Table 1. Reagents used in this study.**

<b>Reagents</b>	<b>Supplier</b>	<b>Catalog number</b>
cis-Diammineplatinum dichloride	Aladdin, China	D109812
Valproic acid	MedChemExpress, USA	HY-10585A
Ferrostain-1	MedChemExpress, USA	HY-100579
Puromycin dihydrochloride hydrate	Beijing solarbio science and technology, China	PB230
Blood urea nitrogen assay kit	Nanjing Jiancheng Bioengineering Institute, China	C013-2-1
Creatinine assay kit	Nanjing Jiancheng Bioengineering Institute, China	C011-2-1
Hematoxylin and eosin staining kit	Servicebio, Wuhan, China	GP1032
Mouse HDAC1 Elisa kit	Sino Best Biological Technology Shanghai, China	YX-E10432
Mouse HDAC2 Elisa kit	Sino Best Biological Technology Shanghai, China	YX-E10441
Reduced glutathione (GSH) assay kit	Nanjing Jiancheng Bioengineering Institute, China	A006-2-1
Malondialdehyde (MDA) assay kit	Nanjing Jiancheng Bioengineering Institute, China	A003-1-2
Cell malondialdehyde (MDA) assay kit	Nanjing Jiancheng Bioengineering Institute, China	A003-4-1
Reactive oxygen species (ROS) assay kit	Beyotime biotechnology, China	S0033M
One step TUNEL apoptosis assay kit	Beyotime biotechnology, China	C1088
Propidium iodide (PI)	Beijing solarbio science and technology, China	CA1630

**Supplementary Table 2. Antibodies used in this study.**

<b>Antibodies</b>	<b>Dilution and supplier</b>	<b>Catalog number</b>	<b>Application</b>
HDAC1	1:1000/1:200, Proteintech, Wuhan, China	66085-1-Ig	WB/IHC
HDAC2	1:1000/1:200, Abcam, UK	ab32117	WB/IHC
ACSL4	1:1000/1:200, Abcam, UK	ab155282	WB/IHC
GPX4	1:1000/1:200, Abcam, UK	ab125066	WB/IF
Histone H3 (acetyl K27)	1:1000, Abcam, UK	ab4729	WB
GAPDH	1:5000, Proteintech, Wuhan, China	60004-1-Ig	WB
Goat anti-Rabbit IgG	1:5000/1:200, Beijing TDY Biotech, China	S004F	WB/IHC
Goat anti-Mouse IgG	1:5000/1:200, Beijing TDY Biotech, China	S001F	WB/IHC

**Supplementary Table 3. Sequences of the three small interfering RNA targeting human *GPX4* mRNA.**

<b>Species</b>	<b>Gene</b>	<b>Sequence (5'-3')</b>
Human	<i>GPX4</i> SiRNA-homo-273	sense 5'-GACCGAAGUAAACUACACUTT
		antisense 5'-AGUGUAGUUUACUUCGGUCTT
	<i>GPX4</i> SiRNA-homo-380	sense 5'-GGAGUACGAAGAGAUCAATT
		antisense 5'-UUGAUCUCUUCGUUACUCCTT
	<i>GPX4</i> SiRNA-homo-479	sense 5'-GGAAGUGGAUGAAGAUCCATT
		antisense 5'-UGGAUCUUCAUCCACUUCCTT

**Supplementary Table 4. Primers for Real-time PCR**

<b>Species</b>	<b>Gene</b>	<b>Sequence (5'-3')</b>
Mouse	Gapdh	sense 5'-TGACCTCAACTACATGGTCTACA-3'
		antisense 5'-CTTCCCATTCTCGGCCTTG-3'
	<i>Kim-1</i>	sense 5'-ACATATCGTGGAATCACAACGAC
		antisense 5'-ACTGCTCTTCTGATAGGTGACA
	<i>Ngal</i>	sense 5'-GCCCAGGACTCAACTCAGAA
		antisense 5'-GACCAGGATGGAGGTGACAT