

Supplementary data

Table S1: Primary antibodies used in the study.

Primary antibodies	Manufacturer and Product code	Dilution	Source
AKT	ABclonal (A17909)	1:1000	Rabbit
p-AKT	ABclonal (AP0098)	1:1000	Rabbit
caspase 3	ABclonal (A16794)	1:1000	Rabbit
JNK	ABclonal (A2462)	1:1000	Rabbit
p-JNK	ABclonal (AP1337)	1:1000	Rabbit
HK2	ABclonal (A0994)	1:1000	Rabbit
COX-2	Boster Bio (BA0738)	1:1000	Rabbit
BAX	HUABIO (ET1603-34)	1:1000	Rabbit
BCL-2	HUABIO (ER0602)	1:2000	Rabbit
CCND1	HUABIO (ET1601-31)	1:2000	Rabbit
PCNA	HUABIO (ET1605-38)	1:2000	Rabbit
NF- κ B p65	HUABIO (ER0815)	1:1000	Rabbit
p-NF- κ B p65	HUABIO (ET1604-27)	1:1000	Rabbit
SIRT-1	HUABIO (M1506-3)	1:500	Mouse
LDHA	HUABIO (ER00702)	1:2000	Rabbit
PFKFB2	HUABIO (ER1915-04)	1:1000	Rabbit
SDHA	HUABIO (ET1703-40)	1:500	Rabbit
GLUT1	HUABIO (ER1510-11)	1:500	Rabbit
CYP11A1	HUABIO (ER1906-98)	1:500	Rabbit
β -actin	HUABIO (EM21002)	1:50000	Mouse

AKT = protein kinase B; p-AKT = phosphorylated protein kinase B; Bcl-2 = B-cell lymphoma-2; BAX = Bcl-2-associated X protein; caspase 3 = cysteine-aspartic acid protease 3;

CCND1 = cyclin D1; COX-2 = cyclooxygenase-2; CYP11A1 = cytochrome P450, family 11, subfamily A, polypeptide 1; GLUT1 = glucose transporter 1; HK2 = hexokinase 2; JNK = c-Jun N-terminal kinase; p-JNK = phosphorylated c-Jun N-terminal kinase; LDHA = lactate dehydrogenase A; NF- κ B p65 = nuclear factor kappa B p65; p-NF- κ B p65 = phosphorylated NF- κ B p65; PCNA = proliferating cell nuclear antigen; PFKFB2 = 6-phosphofructo-2-kinase/fructose-2,6-bisphosphatase 2; SDHA = succinate dehydrogenase complex, subunit A; SIRT-1 = silent information regulator 1; β -actin = beta-actin.

Table S2: Primers used for quantitative RT-PCR

Gene	Accession number	Primer sequence (5'-3')	Product size (bp)
<i>Bax</i>	XM_0152900	F: GGATGACAGGAAAGTACGGCA	173
	60.2	R: TCACCAGGAAGACAGCGTAT	
<i>Bcl-2</i>	NM_205339.	F: ATCGTCGCCTTCTTCGAGTT	150
	2	R: ATCCCATCCTCCGTTGTCCT	
<i>Caspas</i>	NM_204725.	F: CAGCTGAAGGCTCCTGGTTT	98
<i>e3</i>	1	R: GCCACTCTGCGATTTACACG	
<i>Caspas</i>	NM_204592.4	F: TAAAATGACCAGCCGACCCC	126
<i>e8</i>		R: TCTGCATCCACATGTGTCCC	
<i>Caspas</i>	XM_424580.6	F: GCTTGTCATCCCAGTCCAA	95
<i>e9</i>		R: TGCTGCTGACACCTTCACCATTC	
<i>Cat</i>	NM_0010312	F: TCAGGAGATGTGCAGCGTTT	109
	15.2	R: TCTTACACAGCCTTTGGCGT	
<i>CDK2</i>	NM_0011998	F: TCCGTATCTTCCGCACGTTG	183
	57.1	R: GCTTGTTGGGATCGTAGTGC	
<i>CDK6</i>	NM_0010078	F: GCACGCCGGGATAAATACAGA	234
	92	R: CATGAGTACCAAAGCCCCGT	
<i>CYP1</i>	NM_0010017	F: GGTGGCATAACCGTGACTACC	159
<i>1A1</i>	56.2	R: ACAAAGTCCTGGCTCACCTG	
<i>CYP1</i>	NM_0010017	F: CCTCTGCTGGAGATGGTTTT	68
<i>9A1</i>	61	R: GCTGATCCACTTTAGTCACTCTGA	
<i>Gclm</i>	NM_0010079	F: CCATAGGCACCTCTGACCTTG	110
	53.1	R: CGGCATCACGCAACATGAAG	
<i>Glut1</i>	NM_205209.	F: GCAAGATGACAGCTCGCCT	110
	1	R: GTCTTCAATCACCTTCTGCGG	
<i>Gsr</i>	XM_0152766	F: TCCTGACTACGGCTTCGAGA	150
	27.1	R: AACTTGCCGTAACCACGGAT	
<i>Gsta</i>	NM_204818.	F: GCAGAGCCATCCTCAGCTAC	150
	2	R: CCTTTGCCTCAGGTGGAGAG	
<i>HK1</i>	NM_204101.	F: GGAGGATCAGGTCAAAAAGATCG	141
	1	R: TTCACTGTCGCTGTTGGGTT	
<i>HK2</i>	NM_204212.	F: GAAGGGTTTCAAAGCCACGG	87
	1	R: AGGTCAAACCTCTCTGCG	
<i>IDH1</i>	XM_0049426	F: GGAACAGTCTTCAGGGAGGC	94
	82.3	R: CGTAAGCATGACGGCCAATG	
<i>LDHA</i>	NM_205284.	F: GAAGACGCCGGCAGTACA	101
	1	R: ACCAACCACGCTGATCTTGT	
<i>LDHB</i>	NM_204177.	F: ACGTTATGGCGACCCTGAAG	143
	2	R: ATCACAAAGACCCTTGCCGA	
<i>Mgst</i>	NM_204794.	F: AAAGAACAGAAACCCCATTCAG	82
	2	R: GCACAGAGGGACATTTTGATT	
<i>PFKL</i>	NM_0013184	F: CCTCTGAGGGCAAGGGAATC	101
	42.1	R: CTTGGTCCCATAGTTGCGGT	
<i>PFKM</i>	NM_204223.2	F: AGCAGACAGACTTCCAGCAC	198
		R: GGGATTTTGGAGGGGTCGTT	
<i>PFKP</i>	XM_0469116	F: GGAGCGGTCGGAGGAAAC	165
	64.1	R: CTCGAAGAACTTGGGCTGGT	
<i>PKM</i>	XM_0152787	F: CATGCAGCACGCTATTGCTC	88
	96.2	R: GTGGTGTA CACTGTGGCGTA	
<i>SDHA</i>	NM_0012773	F: ATTCCCGTTTTGCCTACGGT	172
	98.1	R: GGGAGTTTGCTCCAAGACGA	
<i>SDHB</i>	NM_0010808	F: ATTGCTGGTGGAACACCCT	191
	75.3	R: TCCTTGCCCTGTTTCGACTC	

<i>Sod</i>	1	NM_205064.	F: GGCAATGTGACTGCAAAGGG R: CCCCTCTACCCAGGTCATCA	133
<i>Sod2</i>	1	NM_204211.	F: TCCTGACCTGCCTTACGACT R: TGCCAGCGCCTCTTTTGTATT	139
<i>Trx</i>	1	NM_205453.	F: GTGCATGCCAACATTCCAGT R: CTCCATGGCGGGAGATTAGAC	118
β -actin	2	NM_205518.	F: CCAGCCATGTATGTAGCCATCCAG R: GGTAACACCATCACCAGAGTCCATC	93

Bcl-2 = B-cell lymphoma-2; *Bax* = Bcl-2-associated X protein; *Caspase 3* = cysteine-aspartic acid protease 3; *Caspase 8* = cysteine-aspartic acid protease 8; *Caspase 9* = cysteine-aspartic acid protease 9; *Cat* = catalase; *CCND1* = cyclin D1; *CDK2* = cyclin-dependent kinase 2; *CDK6* = cyclin-dependent kinase 6; *CYP11A1* = cytochrome P450, family 11, subfamily A, polypeptide 1; *CYP19A1* = cytochrome P450, family 19, subfamily A, polypeptide 1; *Gclm* = glutamate-cysteine ligase modifier subunit; *Glut1* = glucose transporter 1; *Gsr* = glutathione-disulfide reductase; *Gsta* = glutathione S-transferase alpha; *HK1* = hexokinase 1; *HK2* = hexokinase 2; *IDH1* = isocitrate dehydrogenase 1; *LDHA* = lactate dehydrogenase A; *LDHB* = lactate dehydrogenase B; *Mgst* = microsomal glutathione S-transferase; *PCNA* = proliferating cell nuclear antigen; *PFKL* = phosphofructokinase liver type; *PFKM* = phosphofructokinase muscle type; *PFKP* = phosphofructokinase platelet type; *PKM* = pyruvate kinase M; *SDHA* = succinate dehydrogenase complex flavoprotein subunit A; *SDHB* = succinate dehydrogenase complex flavoprotein subunit B; *Sod* = superoxide dismutase; *Trx* = thioredoxin.