

## SUPPLEMENTARY TABLES

**Supplementary Table 1. siRNA, PCR primers, and probes.**

Primer name	Sequence (5' → 3')
siRNA	
MKP-1 (target 1)	F: CCAAUUGUCCCAACCAUUUU R: AAAAUGGUUGGGACAAUUGG
MKP-1 (target 2)	F: GGAGGAUACGAAGCGUUUU R: AAAACGCUUCGUAUCCUCC
MKP-1 (target 3)	F: GCAUCAUCUCUCCCAACUU R: AAGUUGGGAGAGAUGAUGC
Primers for SYBR® Green RT-PCR assays	
G6PD	F: TGACCTGGCCAAGAAGAAGA R: CAAAGAAGTCCTCCAGCTTG
IDH1	F: CACTACCGCATGTACCAGAAAGG R: TCTGGTCCAGGCAAAAATGG
ME1	F: CTGCCTGTCATTCTGGATGT R: ACCTCTTACTCTTCTCTGCC
MTHFD2	F: TGCCTCAACAAAACCAGGG R: TTCCTCTGAAATTGAAGCTGG
PGD	F: ATATAGGGACACCACAAGACGG R: GCATGAGCGATGGGCCATA
PPAT	F: CGGTGCCAACATTCAAATC R: TGGTGTGTCCAATTCCAAGA
TKT	F: GCTGAACCTGAGGAAGATCA R: TGTCGAAGTATTTGCCGGTG
AKR1B10	F: 5'-TGTGGGCCTGGGCACTTGGA-3' R: 5'-GGTCCTCCCGCTTCACAGCC-3'
Primers and probes for Taqman® RT-PCR analysis	
Nrf2	F: ACTCCCTGCAGCAAACAAGAG R: TTTTCTTAACATCTGGCTTCTTACTTTT Probe: TGGCAATGTTTTCTTGTTC(5'-FAM 3'-BHQ1)
MKP-1	F: CACTGCCAGGCAGGCATT R: CTCGATTAGTCCTCATAAGGTAAGCA Probe: CCCGGTCAGCCACCATCTGCC(5'-FAM 3'-TAMRA)

**Supplementary Table 2. Correlations of clinicopathological features with overexpression of MKP-1, Nrf2, and HO-1 in 95 patients with NSCLC.**

Characteristics	Cases	MKP-1		$\chi^2$	p value	Nrf2		$\chi^2$	p value	HO-1		$\chi^2$	p value
		Low <sup>‡</sup>	High <sup>†</sup>			Low	High			Low	High		
<b>Age (years)</b>													
≤60	43	13	30	9.253	<b>0.004**</b>	11	32	6.805	<b>0.012*</b>	15	28	0.857	0.404
≥61	52	32	20			27	25			23	29		
<b>Sex</b>													
Female	52	22	30	1.180	0.277	17	35	2.556	0.142	17	35	2.556	0.142
Male	43	23	20			21	22			21	22		
<b>Histological differentiation</b>													
Poor	13	6	7	0.762	0.943	6	7	4.159	0.474	7	6	7.493	0.113
Poor-moderate	53	27	26			20	33			20	33		
Moderate	22	9	13			9	13			9	13		
Moderate-well	5	2	3			1	4			0	5		
Well	2	1	1			2	0			2	0		

\*p <0.05, \*\*p <0.01 (two-tailed)

<sup>†</sup>50% of cancer cells stained

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