

Supplementary Table 1. Resource and histological type of lung cancer cell lines

Cell line	Resource Distributor	Histology
NCI-H1781	ATCC (American Type Culture Collection)	adenocarcinoma
NCI-H1373	ATCC (American Type Culture Collection)	adenocarcinoma
LC319	Aichi Cancer Center	adenocarcinoma
A549	ATCC (American Type Culture Collection)	adenocarcinoma
PC14	RIKEN BRC (BioResource Center)	adenocarcinoma
A427	ATCC (American Type Culture Collection)	adenocarcinoma
PC-3	JCRB (Japanese Collection of Research Bioresources)	adenocarcinoma
PC-9	National Cancer Center Hospital, Tokyo, Japan	adenocarcinoma
NCI-H1666	ATCC (American Type Culture Collection)	adenocarcinoma
SK-MES-1	ATCC (American Type Culture Collection)	squamous cell carcinoma
NCI-H2170	ATCC (American Type Culture Collection)	squamous cell carcinoma
NCI-H520	ATCC (American Type Culture Collection)	squamous cell carcinoma
NCI-H1703	ATCC (American Type Culture Collection)	squamous cell carcinoma
LU61	Central Institute for Experimental Animals	squamous cell carcinoma
NCI-H647	ATCC (American Type Culture Collection)	squamous cell carcinoma
NCI-H226	ATCC (American Type Culture Collection)	squamous cell carcinoma
EBC1	JCRB (Japanese Collection of Research Bioresources)	squamous cell carcinoma
LX1	Central Institute for Experimental Animals	large cell carcinoma
SBC-3	JCRB (Japanese Collection of Research Bioresources)	small cell carcinoma
SBC-5	JCRB (Japanese Collection of Research Bioresources)	small cell carcinoma
DMS273	ECACC (European Collection of Animal Cell Cultures)	small cell carcinoma
DMS114	ATCC (American Type Culture Collection)	small cell carcinoma
RERF-LC-AI	JCRB (Japanese Collection of Research Bioresources)	small cell carcinoma
SAEC	Cambrex Bio Sciences Inc., Walkersville, MD, USA	Normal Human Small Airway Epithelia

Supplementary Table 2. Summary of 262 NSCLC patients

	total
Patients recruited (n)	262
Median (range) age at diagnosis (y)	65 (26-84)
Sex (female) (%)	88 (33.6)
Current or ex-smoker (%)	174 (66.4)
Histological type (n)	
adenocarcinoma (%)	156 (59.5)
squamous carcinoma (%)	88 (33.6)
adenosquamous carcinoma (%)	3 (1.1)
large cell carcinoma (%)	15 (5.7)
Tumor size (n)	
pT1 (%)	111 (42.4)
pT2 (%)	125 (47.7)
pT3 (%)	26 (9.9)
Lymph node status (n)	
pN0 (%)	204 (77.9)
pN1 (%)	23 (8.8)
pN2 (%)	35 (13.4)
Pathological stage (n)	
pStage IA (%)	99 (37.8)
pStage IB (%)	90 (34.3)
pStage IIA (%)	5 (1.9)
pStage IIB (%)	26 (9.9)
pStage IIIA (%)	42 (16.0)

Supplementary Table 3A. Association between CDCA5-positivity in NSCLC tissues and patients' characteristics (n = 262)

	Total n = 262	CDCA5 positive n = 192(73.3%)	CDCA5 negative n = 70(26.7%)	P-value: positive vs negative
Age (years)				
< 65	128(48.9%)	98(37.4%)	30(11.5%)	0.2655
>= 65	134(51.1%)	94(35.9%)	40(15.3%)	
Gender				
Female	88(33.6%)	64(24.4%)	24(9.2%)	0.8835
Male	174(66.4%)	128(48.9%)	46(17.6%)	
Smoking				
non-smoker	88(33.6%)	61(23.3%)	27(10.3%)	0.3052
smoker	174(66.4%)	131(50.0%)	43(16.4%)	
Histological type				
ADC	156(59.5%)	109(41.6%)	47(17.9%)	0.1552
non-ADC	106(40.4%)	83(31.7%)	23(8.8%)	
pT factor				
T1	111(42.4%)	82(31.3%)	29(11.0%)	0.8884
T2+T3	151(57.6%)	110(42.0%)	41(15.6%)	
pN factor				
N0	204(77.9%)	150(57.3%)	54(20.6%)	0.8675
N1+N2	58(22.1%)	42(16.0%)	16(6.1%)	

ADC, adenocarcinoma

non-ADC, squamous-cell carcinoma plus large-cell carcinoma and adenosquamous-cell carcinoma

*P < 0.05 (Fisher's exact test)

Supplementary Table 3B. Numbers at risk in NSCLC patients (n)

	total	CDCA5 positive	CDCA5 negative
1 year	217	157	60
2 year	142	99	43
3 year	93	65	28
4 year	78	53	25
5 year	56	42	14

Supplementary Table 3C. Cox's proportional hazards model analysis of prognostic factors in patients with NSCLCs

Variables	Risk ratio (univariate 95% confidence interval)		Unfavorable/Favorable	P-value
Univariate analysis				
CDCA5	2.266	(1.156-4.442)	Positive / Negative	0.0172*
Age (years)	2.132	(1.289-3.527)	>= 65 / 65 >	0.0032*
Gender	2.107	(1.183-3.751)	Male / Female	0.0114*
Smoking	1.902	(1.094-3.309)	smoker / non-smoker	0.0228*
Histological type	2.778	(1.682-4.589)	non-ADC/ADC	< 0.0001*
pT factor	4.005	(2.140-7.497)	T2+T3 / T1	< 0.0001*
pN factor	4.405	(2.701-7.182)	N1+N2 / N0	< 0.0001*
Multivariate analysis				
CDCA5	2.207	(1.108-4.399)	Positive / Negative	0.0244*
Age (years)	1.861	(1.106-3.131)	>= 65 / 65>	0.0193*
Gender	1.12	(0.526-2.381)	Male / Female	0.7693
Smoking	1.275	(0.629-2.586)	smoker / non-smoker	0.5006
Histological type	1.463	(0.807-2.655)	non-ADC/ADC	0.2102
pT factor	2.435	(1.254-4.729)	T2+T3 / T1	0.0086*
pN factor	3.554	(2.160-5.847)	N1+N2 / N0	< 0.0001*

ADC, adenocarcinoma

non-ADC, squamous-cell carcinoma plus large-cell carcinoma and adenosquamous-cell carcinoma

*P < 0.05