

## Supplementary Material

### PLEKHG2 Promotes NSCLC Cell Growth By Increasing Glycolysis Via Activated PI3K/AKT Pathway

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**Supplemental Table 1.** Sequences of qPCR primers

primer		Sequence (5'→3')
has-PLEKHG2	forward	AGGAAGGGCTGGAGATGGAT
	reverse	GAGAGGGTGGGAGTGCTAGA
has-GAPDH	forward	AATCCCATCACCATCTTC
	reverse	AGGCTGTTGTCATACTTC

**Supplemental Table 2.** Baseline characteristics of the patients from GSE50081

Variable	PLEKHG2- LOW	PLEKHG2- HIGH	P-value	
Sample size	90	91		
Age (years)	68.77±9.68	68.79±9.05	0.97	
Gender (%)	Male	47 (52.22)	51 (56.04)	0.72
	Female	43 (47.78)	40 (43.96)	
Smoking (%)	Never	20 (22.22)	4 (4.40)	<0.001***
	Ex-smoker	47 (52.22)	53(58.24)	
		Current	23 (25.56)	
Stage (%)	Ia	31 (34.44)	17 (18.68)	0.16
	Ib	35 (38.89)	44 (48.35)	
	IIa	3 (3.33)	6 (6.59)	
	IIb	21 (23.33)	24 (26.37)	
Outcome (%)	Alive	61 (67.78)	45 (49.45)	0.017*
	Death	29 (32.22)	46 (50.55)	

\*:  $P < 0.05$ ; \*\*\*:  $P < 0.001$ ;

**Supplemental Table 3.** The clinical characteristics of the patients for IHC

Variable	Paient1	Paient2	Paient3	Paient4	Paient5
Age (years)	68	38	65	66	69
Gender	Female	Female	Female	male	Female
BMI	21	23	25.5	27.2	27.1
Smoking	Never	Never	Never	Never	Current
hypertension	No	No	No	Yes	Yes
diabetes	No	No	No	No	Yes
Stage	Ia	Ia	Ia	Ia	Ia

**Supplemental Figure 1.** Validation of high expression of PLEKHG2 in NSCLC tumor tissues by IHC

