

Supplementary Table 1A

Patient characteristics (n=145)

Characteristics	XAGE1 (GAGED2a) antibody		P-value
	Positive (n=33)	Negative (n=112)	
Sex – no. (%)			
Male	20 (60.6)	86 (76.8)	0.08
Female	13 (39.4)	26 (23.2)	
Age – yr			
Mean ± S.D.	70.8 ± 12.1	71.9 ± 10.0	0.98
Smoking status – no. (%)			
Never or light	13 (39.4)	28 (25.0)	0.13
Heavy	20 (60.6)	84 (75.0)	
Clinical stage - no. (%)			
IIIB	9 (27.3)	27 (24.1)	0.82
IV	24 (72.7)	85 (75.9)	
ECOG performance status score - no. (%)			
0 – 1	29 (87.9)	88 (78.6)	0.32
2 – 4	4 (12.1)	24 (21.4)	
Brain metastasis – no. (%)			
Yes	14 (42.4)	29 (25.9)	0.08
No	19 (57.6)	83 (74.1)	
EGFR mutation - no. (%)			
Mutated	17 (51.5)	27 (24.1)	0.005
Wild type	16 (48.5)	85 (75.9)	

Supplementary Table 1B

EGFR mutation types (n=44)

EGFR mutation	n (%)
Exon 18	
G719A/C/S	5 (11.4)
Exon 19	
E746-A750 del type1	
E746-A750 del type2	22 (50.0)
L747-P753 del insS	
Exon 21	
L858R	17 (38.6)
L861Q	

## Supplementary Table 2A

### Univariate Cox regression analysis

Factor	HR	95% C.I.	p-value
XAGE1(GAGED2a) expression, positive	0.78	0.52-1.16	0.22
Anti-XAGE1(GAGED2a) Ab, positive	0.52	0.32-0.84	0.008
EGFR mutation, positive	0.56	0.36-0.87	0.009
Gender, female	0.66	0.42-1.02	0.06
Age, 75 yr.>	0.91	0.60-1.38	0.65
ECOG performance status score, 0-1	0.46	0.28-0.75	0.002
TNM, T3-4	1.29	0.88-1.90	0.20
TNM, N2-3	1.56	1.02-2.40	0.04
Brain metastasis, positive	1.18	0.77-1.81	0.44
Smoking habit, never or light	0.61	0.40-0.94	0.03

