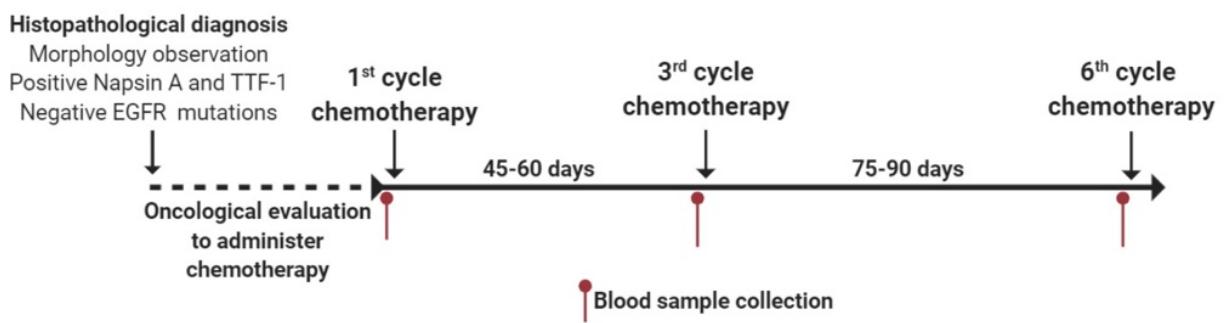


Supplementary Table S1. Patients characteristics at 3rd and 6th cycle of treatment.

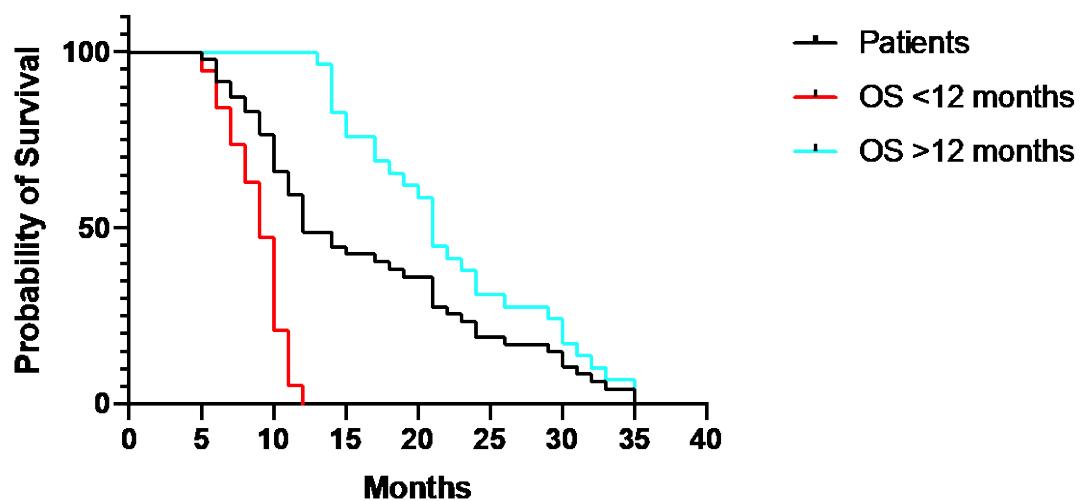
Characteristic	Total Group	3 rd cycle of treatment			<i>p</i>	6 th cycle of treatment			<i>p</i>		
		Patients with:		<i>p</i>		Patients with:		<i>p</i>			
		shorter survival ¹	longer survival ¹			shorter survival ¹	longer survival ¹				
n	53	22	31	-		53	22	31	-		
Clinical parameters											
Leukocytes ($10^3/\text{mm}^3$) ²	6.4 (5.3-8.2)	7.1 (5.4-10)	5.8 (4.9-8)	0.1346		6.2 (5.2-8)	7.8 (5.6-11.8)	5.8 (4.4-8.6)	0.0761		
Lymphocytes ($10^3/\text{mm}^3$) ²	1.8 (1.5-2.2)	1.7 (1.5-2.1)	1.8 (1.5-2.3)	0.9388		1.5 (1.1-2.3)	1.3 (0.9-2.3)	1.7 (1.4-2.2)	0.2094		
TGF-β (ng/mL) ²	19.5 (12.5-29.8)	16 (8.4)	19.6 (13.3-25.7)	0.2178		18.7 (12.2-27.8)	17.4 (13.3-27.2)	18.1 (10.8-27.6)	0.8074		
HMGB-1 (ng/mL) ²	1.9 (1.3-2.7)	1.9 (1.4-2.7)	1.9 (1.2-2.8)	0.8902		2 (1.4-2.9)	1.9 (0.9-2.7)	2 (1.4-3.0)	0.3895		
IL-6 (pg/mL) ²	3 (1.6-5.4)	3.7 (2.6-5.3)	2.7 (1.5-5.4)	0.3873		3.8 (1.9-8.1)	5.7 (2.2-12.9)	2.8 (1.8-6.4)	0.1701		
NLR ²	1.8 (1.5-2.5)	2.2 (1.6-3.5)	1.7 (1.5-2.2)	0.1274		2.1 (1.5-3)	2.9 (2-6.1)	1.8 (1.2-2.2)	0.0008		
SII ²	605.8 (432.8-813.2)	625.2 (433.7-818)	605.8 (414.5-834.2)	0.8346		593.4 (345.9-1093)	1062 (517.7-2278)	411.5 (293.6-729.5)	0.001		
T-lymphocytes (%)³											
CD4+	39.45 ± 3.31	44.7 ± 6.49	36.82 ± 3.74	0.2746		41.81 ± 3.28	49.46 ± 4.75	37.56 ± 4.11	0.1599		
Th1 (%) ³	12.40 ± 2.57	15.38 ± 3.71	7.43 ± 2.31	0.0838		11.33 ± 2.34	13.61 ± 3.30	7.23 ± 2.41	0.1178		
Th2 (%) ³	2.81 ± 0.38	2.91 ± 0.49	2.63 ± 0.62	0.9070		2.77 ± 0.34	2.86 ± 0.41	2.62 ± 0.61	0.6888		
Th17 (%) ³	3.42 ± 0.39	3.18 ± 0.54	3.88 ± 0.51	0.2198		3.71 ± 0.47	3.39 ± 0.52	4.28 ± 0.96	0.4081		
Treg (%) ³	4.43 ± 0.46	4.71 ± 0.59	3.91 ± 0.74	0.5251		4.10 ± 0.35	4.12 ± 0.41	4.08 ± 0.68	0.8322		
CD8+ (%) ³	26.87 ± 2.48	17.60 ± 1.95	31.50 ± 3.06	0.0533		25.47 ± 1.86	19.06 ± 1.48	29.03 ± 2.40	0.0025		
CTLs											
GrB+Perf+ (%) ³	37.54 ± 3.91	25.29 ± 3.76	43.66 ± 5.01	0.072		38.39 ± 3.98	2625.34 ± 6.49	45.64 ± 4.	0.0085		

¹ Patients were categorized according to median OS. ² Median (interquartile range). ³ Mean ± SEM. NLR = Neutrophil-lymphocyte ratio. SII = Systemic inflammatory index. GrB = Granzyme B. Perf = Perforin.

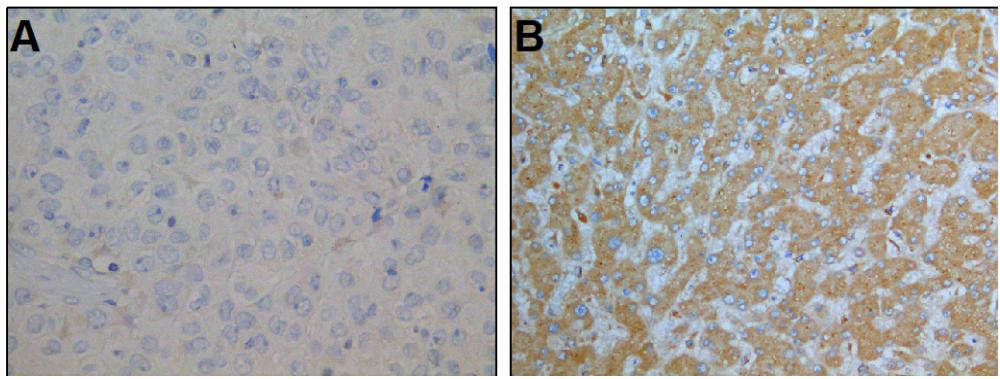


Supplementary Figure S1. Schematic representation of lung adenocarcinoma patient's treatment. The first, third, and sixth cycle of treatment is indicated. Also, the blood sample collection is shown.
Created with BioRender.com.

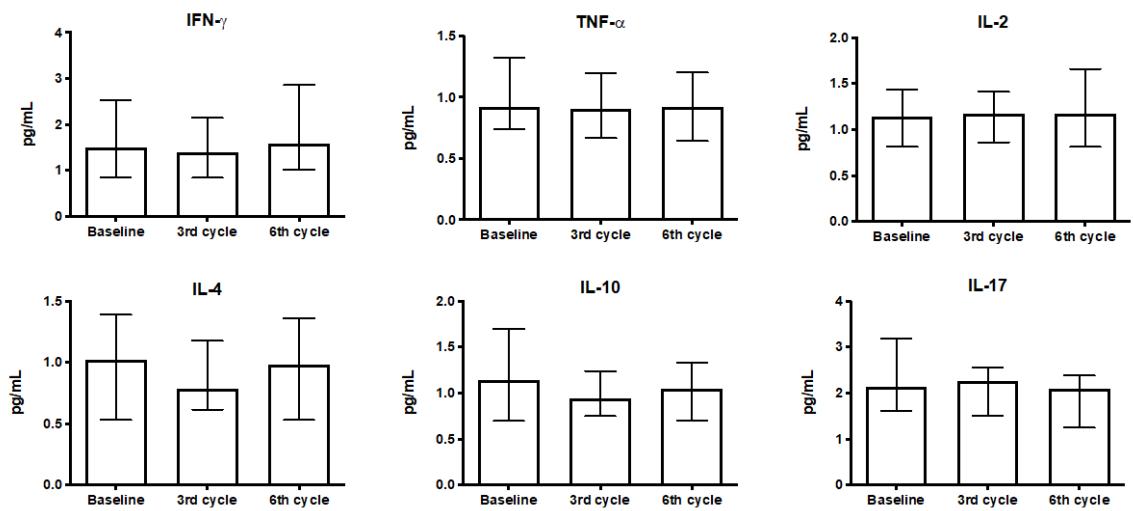
Overall Survival



Supplementary Figure S2. Kaplan-Meier overall survival (OS) analysis. Total patients ($n = 53$), patients with shorter (< 12 months, $n = 22$) and longer (> 12 months, $n = 31$) OS are shown.



Supplementary Figure S3. Negative and positive controls for IL-6 staining. (A) Tumor tissue without primary antibody (Negative control) and (B) IL-6 staining in liver biopsy (Positive control) are shown. Magnification 200X.



Supplementary Figure S4. IFN- γ , TNF- α , IL-2, IL-4, IL-10 and IL-17 plasma concentrations in patients throughout treatment cycles. $n = 53$. Median and interquartile ranges are shown.