Supplementary Materials

Table S1: Granulysin mRNA in rAds treated HEK293 cells was detected by qPCR.

Gene	Primer sequences (5'- 3')	Cycle parameters
GNLY	F: GATAAGCCCACCCAGAGAAG	95 °C 30 sec; 95 °C 5 sec, 60 °C 34 sec, 40 cycles; 95 °C 1 min; 55 °C 1 min; 55-95 °C 4 sec, increase set point temperature by 0.5 °C
	R: GATCTGCTGGGCAGTTTCTC	
β-actin	F: TTCTACAATGAGCTGCGTG	95 °C 30 sec; 95 °C 5 sec, 60 °C 34 sec, 40 cycles; 95 °C 1 min; 55 °C 1 min; 55-95 °C 4 sec, increase set point temperature by 0.5 °C
	R: CTCAAACATGATCTGGGTC	

Table S2: Therapeutic regimens of rAdhGLi and rAdhGLs on TB mice.

Groups	Number of mice					
	2 M	4 M	6 M	2+3 M[†]	4+3 M	6+3 M
PBS	10	10	10			
AdNull	10	10	10			
2RHZ/4RH[*]	10	10	10	10	10	10
rAdhGLi	10	10	10			
rAdhGLs	10	10	10			
rAds	10	10	10			
rAdhGLi+2RHZ/4RH	10	10	10	10	10	10
rAdhGLs+2RHZ/4RH	10	10	10	10	10	10
rAds+2RHZ/4RH	10	10	10	10	10	10

[*] 2RHZ/4RH means that mice were treat with 2-month of RFP+INH+PZA and 4-month of RFP+INH;

† 2+3 M, 4+3 M and 6+3 M mean that mice were killed 3 months after the end of each treatment.

Table S3: Therapeutic regimens of rAdhGLi and rAdhGLs on MDR-TB mice.

Groups	Number of mice		
	15 D	30 D	60 D
PBS	10	10	
AdNull	10	10	
RHZ*	10	10	
rAdhGLi	10	10	
rAdhGLs	10	10	
rAds	10	10	
CLPPK†	10	10	10
rAdhGLi+CLPPK	10	10	
rAdhGLs+CLPPK	10	10	
rAds+CLPPK	10	10	10

* RHZ means that mice were treat with RFP+INH+PZA; † CLPPK means that mice were treat with CFZ+LFX+PZA+PAS+Kan.

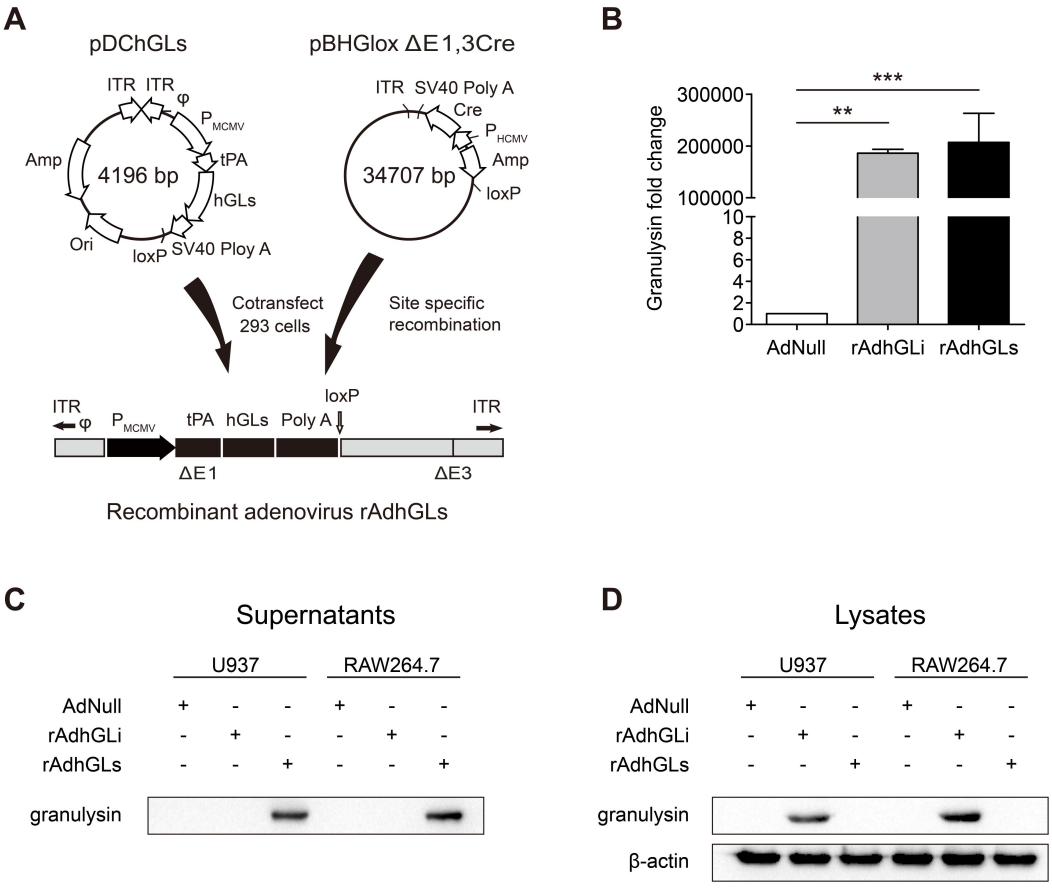

Figure S1: Construction and identification of rAdhGLs. (A) The construction procedure and the genome DNA structure of rAdhGLs. **(B)** The levels of granulysin mRNA in rAdhGLs-treated cells. rAdhGLi and AdNull were used as controls. The results were displayed as the Mean ± SD. Statistical significance was calculated by One-way ANOVA with Tukey's multiple comparison test. ** indicated $p<0.01$, and *** indicated $p<0.001$. **(C-D)** 72 h after infection, the expression of granulysin in the supernatants **(C)** or lysates **(D)** of rAdhGLs-treated U937 or RAW264.7 cells with different MOIs was confirmed by western blotting with mouse anti-granulysin antibody. rAdhGLi and AdNull were used as controls.

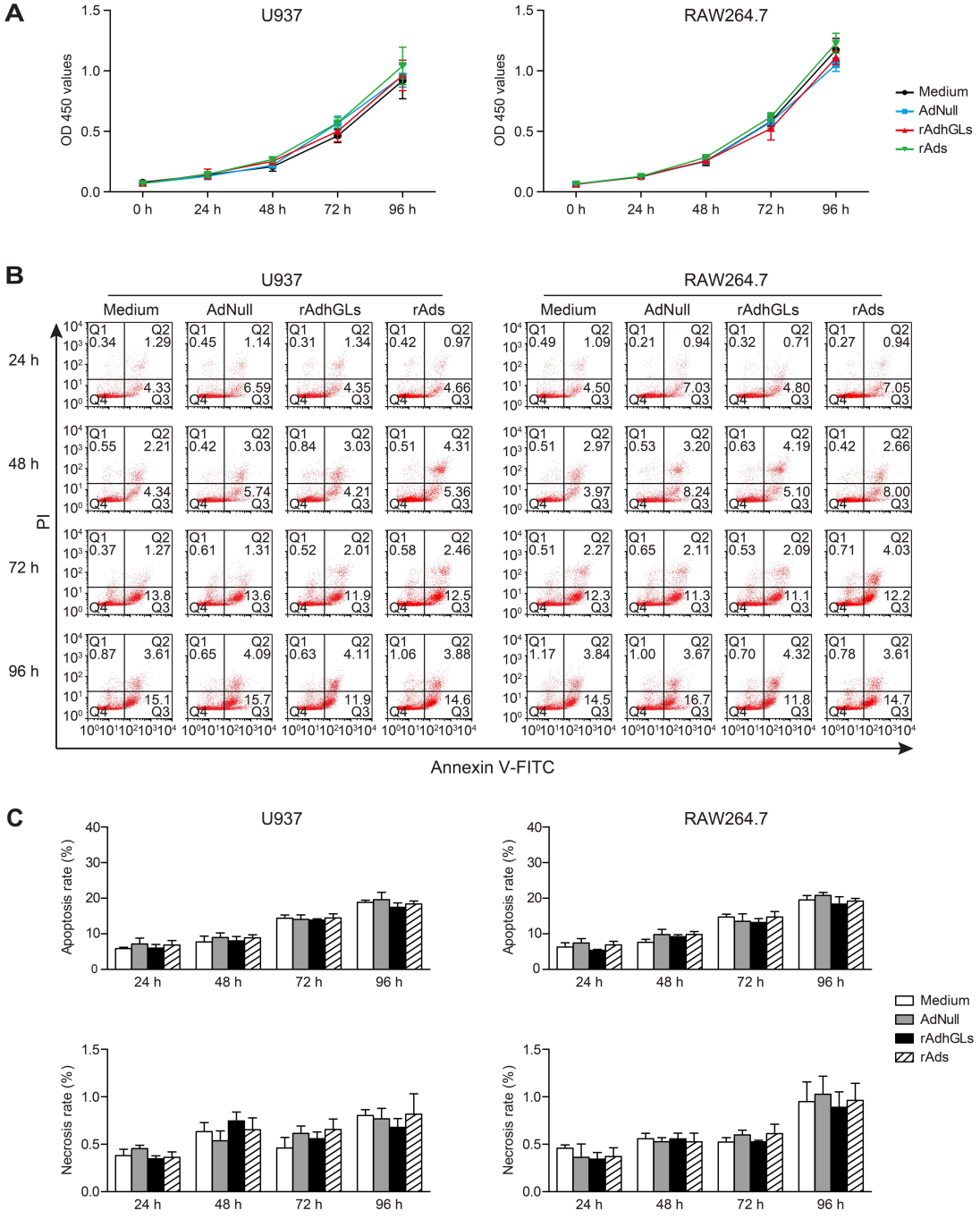

Figure S2: The effects of rAdhGLs with or without rAdhGLi on the proliferation and death of macrophages. (A) Cell proliferation was determined in U937 and RAW264.7 cells treated by rAdhGLs alone or combined with rAdhGLi (rAds) at indicated times. **(B)** The apoptotic and necrotic U937 and RAW264.7 cells were detected by Annexin V/PI assay after rAdhGLs or rAds treatment at indicated times. Culture medium and AdNull were used as negative controls. **(C)** Cell apoptotic and

necrotic rates. The results were displayed as the Mean ± SD of three repeats.