Supplementary Figure legends

Supplementary Figure S1. Physalis alkekengi var. franchetii extracts inhibited STAT3 activation in NSCLC and MM cells. Three NSCLC cell lines (A) and three MM cell lines (B) were treated with physalins for 4 h. The levels of p-STAT3-Tyr, STAT3 and β -actin were detected by western blot analysis.

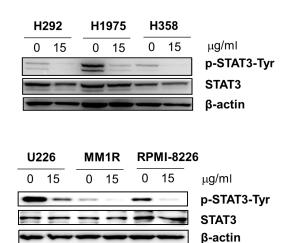
Supplementary Figure S2. STAT3 knockdown repressed the downstream antiapoptotic proteins induced by STAT3. NCI-H1975 cells were transfected with scrambled siRNA or siSTAT3 for 24 h, and the levels of p-STAT3-Tyr, STAT3, Bcl2, XIAP and β -actin were detected by western blot analysis.

Supplementary Figure S3. The combination of the physalins increased the cell apoptosis rate and inhibited STAT3 activation. (A) NCI-H1975 cells were treated with physalin A, physalin O or physalin L separately (3.9 μ g/ml, 7.8 μ g/ml and 1.9 μ g/ml) or together for 24 h, and Annexin V-FITC/PI assays were performed with flow cytometric analysis. (B) NCI-H1975 cells were treated with physalin A, physalin O or physalin L separately (3.9 μ g/ml, 7.8 μ g/ml and 1.9 μ g/ml) or together for 4 h. The levels of p-STAT3-Tyr, STAT3 and β -actin were detected by western blot analysis.

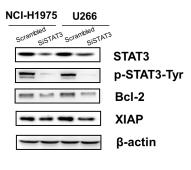
Suppl. Fig. S1

Α

В

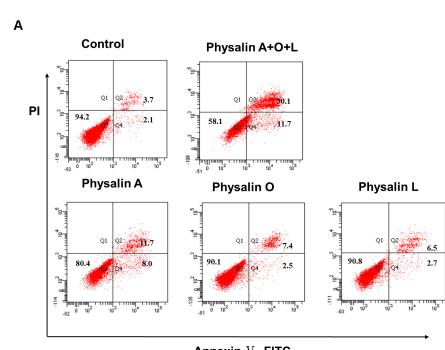


Suppl. Fig. S2

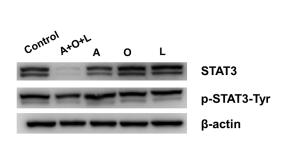


Suppl. Fig. S3

В



Annexin V - FITC



Supplementary Table 1. Inspection report of Physalis alkekengi var. franchetii.

Hangzhou Huadong Chinese crude Co.

Inspection Report

Report No. C151229-6

No. RD-02-008-00

Product Name	Physalis alkekengi	Specification	Crude drug
	var. franchetii		
Origin	Shangdong	Date in Produced	2015/12/27
Lot No.	151227	Number of	100g
		samples	
Provider	General drug	Packaging	Polyethylene
	materials		plastic tape
	production area		
Test Purpose	Quality inspection	Check List No.	C151227-1
Test Item	All items	Sample Tested	2015/12/29
		Date	
Test standard	Zhejiang	Report Date	2015/12/29
	traditional Chinese		
	medicine		
	processing		
	standard (2005		
	Edition,		
	QS-01-0000-03)		

Test Item	Standard order	Test results
[Qualitative character]	Meet the requirements	Meet the requirements
[Residual sulfur dioxide]	<150mg/kg	Not detected

Test conclusion: According to *Zhejiang traditional Chinese medicine processing standard (2005 Edition, QS-01-0000-03)*, this product passed standard tests.