

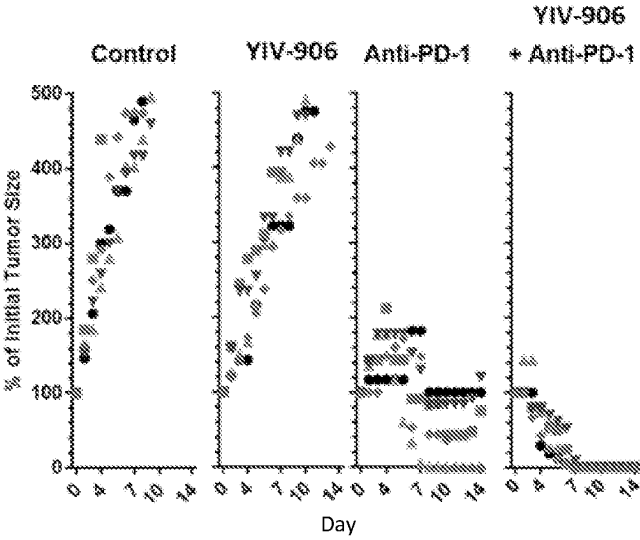


FIG. 1A

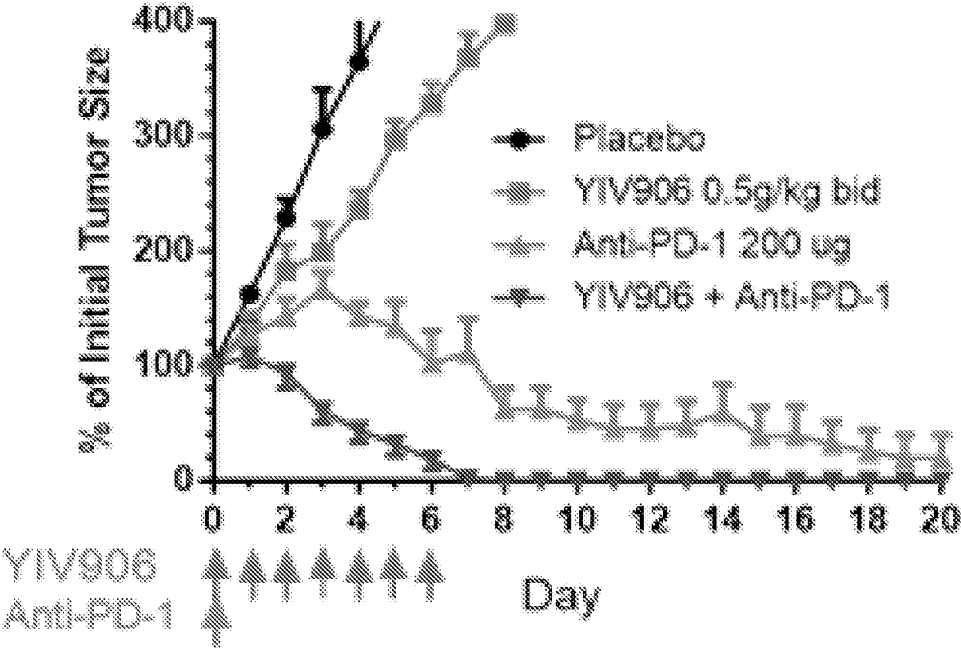


FIG. 1B

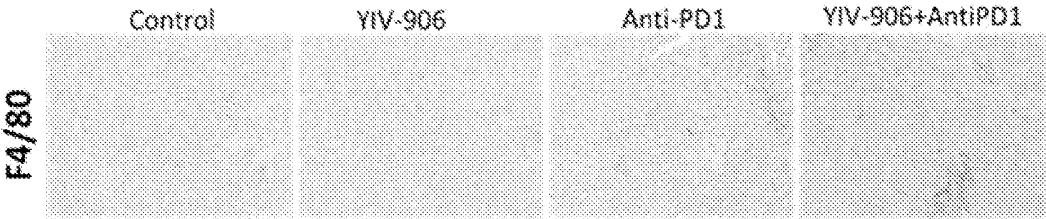


FIG. 2A

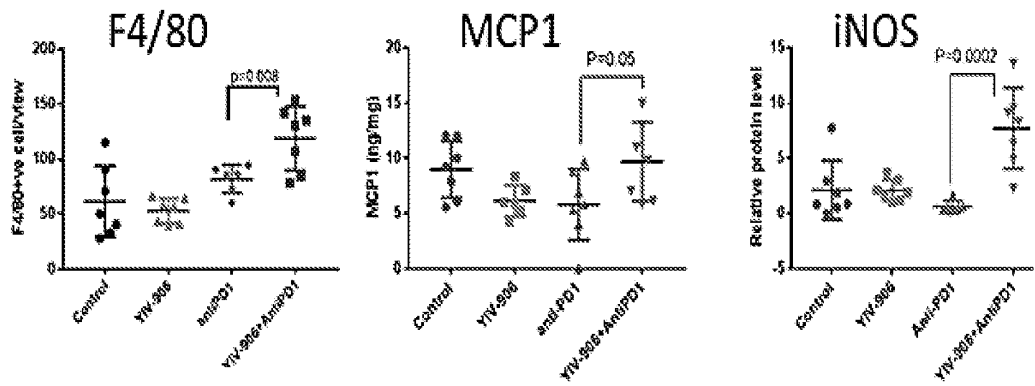


FIG. 2B

FIG. 2C

FIG. 2D

	mRNA	YIV506 vs con	aPD1 vs con	YIV506/aPD1 vs con
Macrophage	CD11b			
	F4/80			
M1 related	CXCL11			
	IFNg			
	IFR1			
	CD38			
	MHCII			
	IFR5			
	iNOS			
	TNF			
	R12A			
	IL6			
	dectin1			
	CXCL9			
	Trail			
	IL1a			
	CD80			
	CD86			
	AP03L			
	CD86			
	IL1b			
	MCP1			
	GMCSF			
	MIP1a			
M2 related	ARG1			
	CD14			
	CD163			
	IFR4			
	TGFb			
	EGR2			
	CD 206			
	MCSF2			
	IL10			

 upregulation P<0.05
 downregulation P<0.05

FIG. 2E

Treatment	Possibility of being in M1 state
Control	0.14
YIV-906	0.14
Anti-PD1	0.57
YIV-906 + Anti-PD1	1.00

FIG. 2F

Gene	Basal						IFN γ						IL4					
	YIV-906						YIV-906GU						YIV-906					
	•	80ug/ml	160ug/ml	80ug/ml	160ug/ml	160ug/ml	•	80ug/ml	160ug/ml	80ug/ml	160ug/ml	160ug/ml	•	80ug/ml	160ug/ml	80ug/ml	160ug/ml	160ug/ml
M1-like	IFN γ	1	3.3	1.5	1.5	7.0	1.4	1.7	2.2	4.9	1.8	10.5	7.0	6.0	4.5	10.2		
	INOS	1	3.4	0.8	1.8	3.7	83	232	255	493	381	2.6	2.6	1.4	4.0	4.2		
	IL1 α	1	1.0	1.3	5.1	6.4	0.7	1.9	5.5	8.9	15.9	0.5	0.4	0.5	3.3	9.3		
	COXII	1	3.4	0.4	1.3	2.4	5.1	15.5	21.5	18.6	18.4	1.3	0.7	1.3	3.6	9.8		
	CD86	1	1.8	2.0	2.6	3.1	4.5	9.8	11.4	10.1	8.1	1.1	0.5	0.5	0.7	1.0		
	TNFA	1	3.0	3.2	3.8	5.8	3.3	12.6	17.1	13.7	16.4	0.8	1.3	1.6	2.9	5.6		
	CXCL9	1	1.1	1.5	0.9	0.6	14.9	34.3	16.7	28.2	14.9	1.0	1.5	1.9	0.8	1.3		
	CXCL11	1	1.7	1.3	0.8	0.5	12.8	29.3	21.1	34.6	30.6	0.6	0.8	1.2	0.8	0.5		
	MCP-1	1	0.7	0.4	0.1	0.3	3.9	8.1	6.8	6.8	3.1	7.4	7.4	7.5	1.1	3.4		
	IRF1	1	2.1	1.7	1.7	1.7	17.8	12.5	26.3	21.6	17.7	1.1	1.3	1.8	1.9	2.7		
M2-like	IRF5	1	3.6	1.3	1.2	1.0	1.1	1.8	2.1	1.7	1.1	1.2	1.3	1.0	0.8	0.8		
	Arg	1	2.1	1.4	1.4	4.3	2.1	1.0	1.5	1.9	0.8	254.2	145.5	91.1	44.1	13.4		
	CD206	1	1.5	1.0	1.6	1.7	1.0	0.7	0.7	1.4	0.4	1.5	1.3	1.0	0.7	1.7		
	IL10	1	3.0	2.2	1.1	0.7	1.3	2.5	2.1	1.6	0.7	1.1	1.2	1.7	0.6	0.3		
	TGFb	1	2.5	1.9	1.5	1.8	0.7	0.8	0.9	0.8	0.7	1.0	1.1	1.2	1.1	1.4		
	IRF4	1	3.5	0.4	0.3	0.9	0.9	0.4	0.4	0.7	0.4	2.9	2.2	1.5	1.4	0.9		

FIG. 3

FIG. 4A

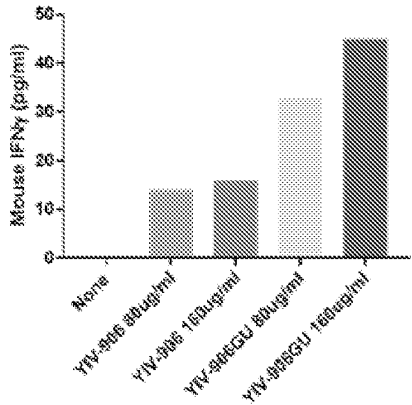


FIG. 4C

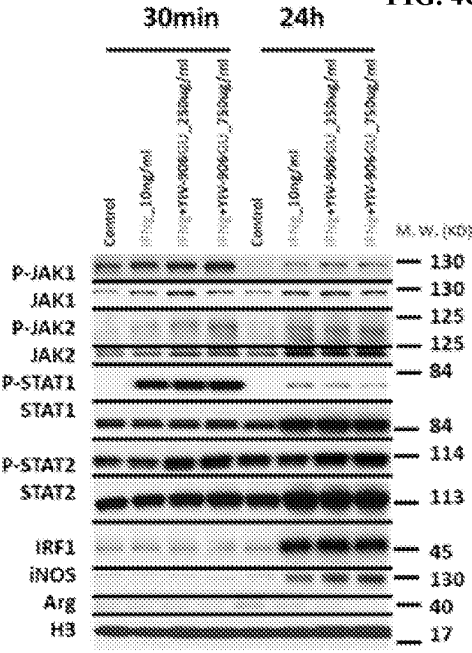


FIG. 4B

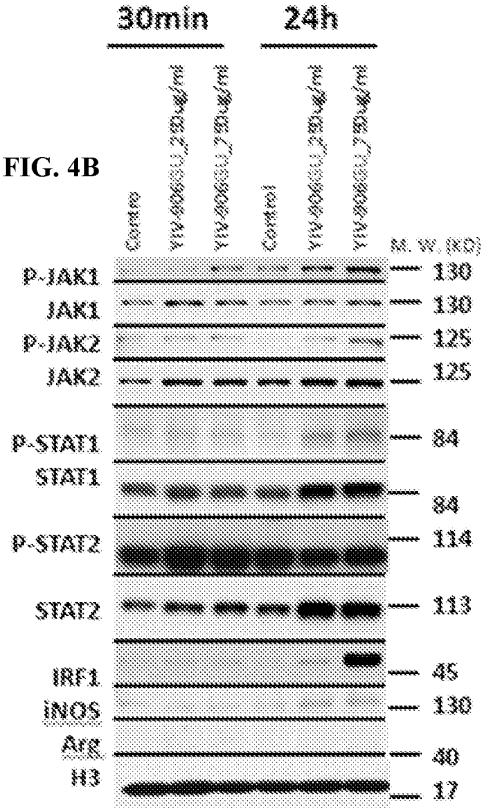
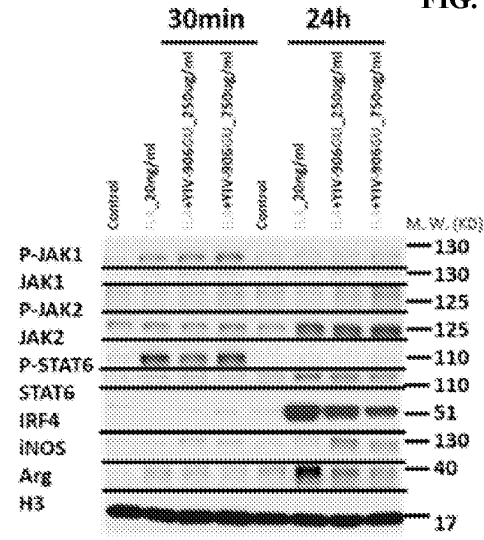


FIG. 4D



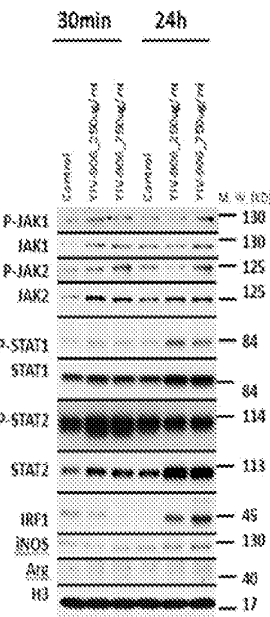


FIG. 5A

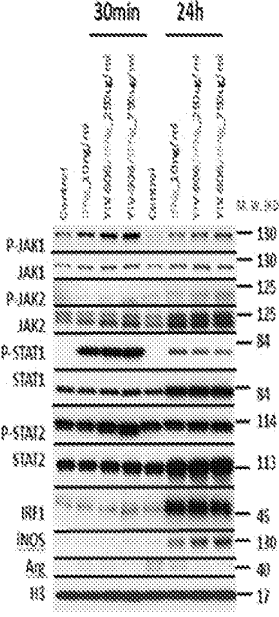


FIG. 5B

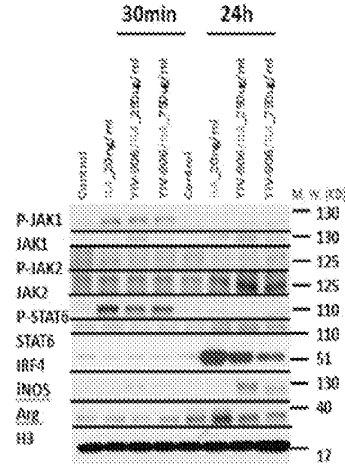


FIG. 5C

Raw cell 264.7											
						IFN γ 10ng/ml					
		VIV-906 250ng/ml	VIV-906 750ng/ml	VIV-906GU 250ng/ml	VIV-906GU 750ng/ml		VIV-906 250ng/ml	VIV-906 750ng/ml	VIV-906GU 250ng/ml	VIV-906GU 750ng/ml	
MCP1	1	9.4	14.3	17.7	20.1	1.4	12.1	25.5	27.2	24.1	
TNF α	1	4.6	13.7	5.8	20.1	1.2	25.3	70.1	22.3	55.2	
iNOS	1	9.5	10.6	9	7.3	34.6	15.7	1162.3	150.36	124.7	

FIG. 6

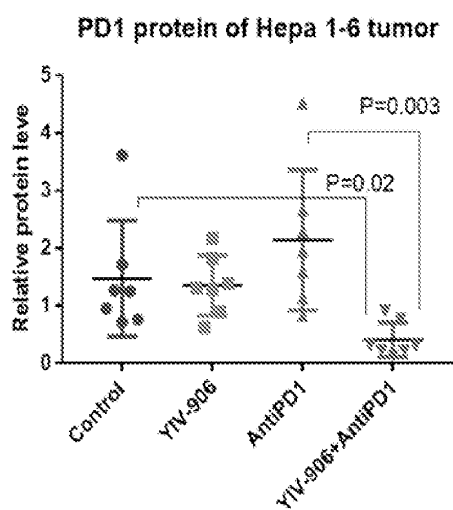


FIG. 7B

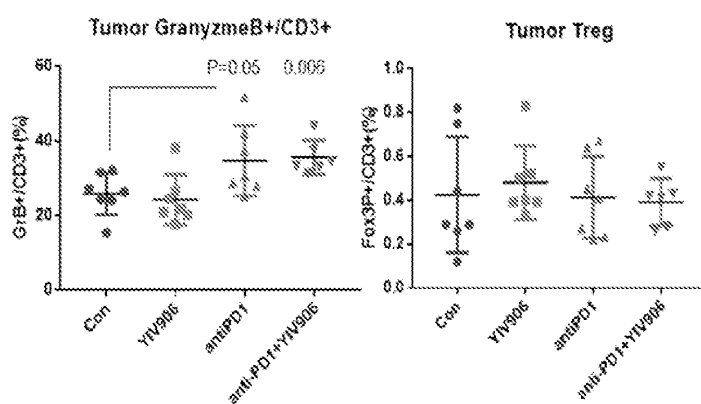
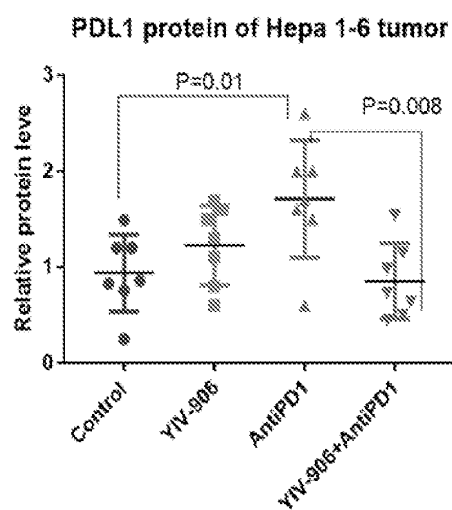
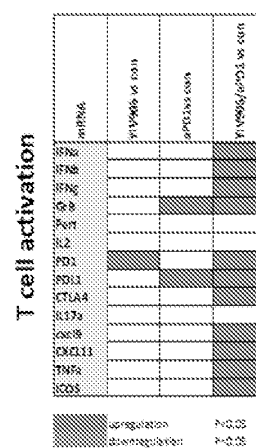


FIG. 8B



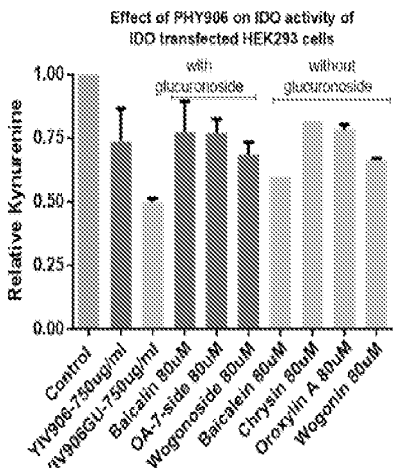


FIG. 9A

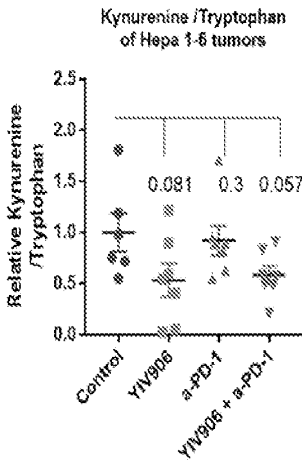


FIG. 9B

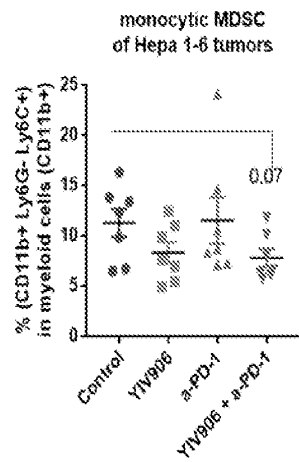


FIG. 9C

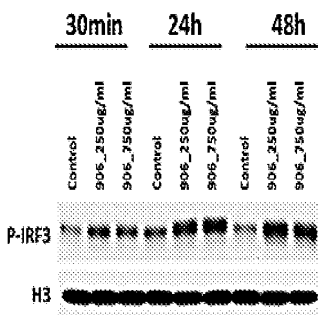


FIG. 10A

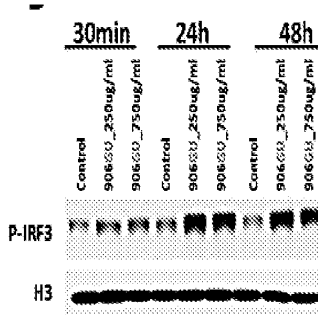


FIG. 10B

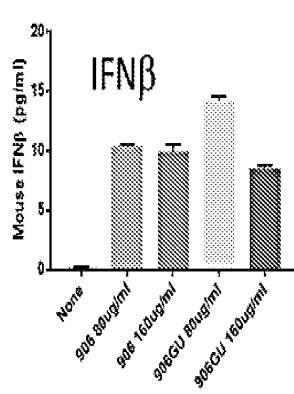


FIG. 10C

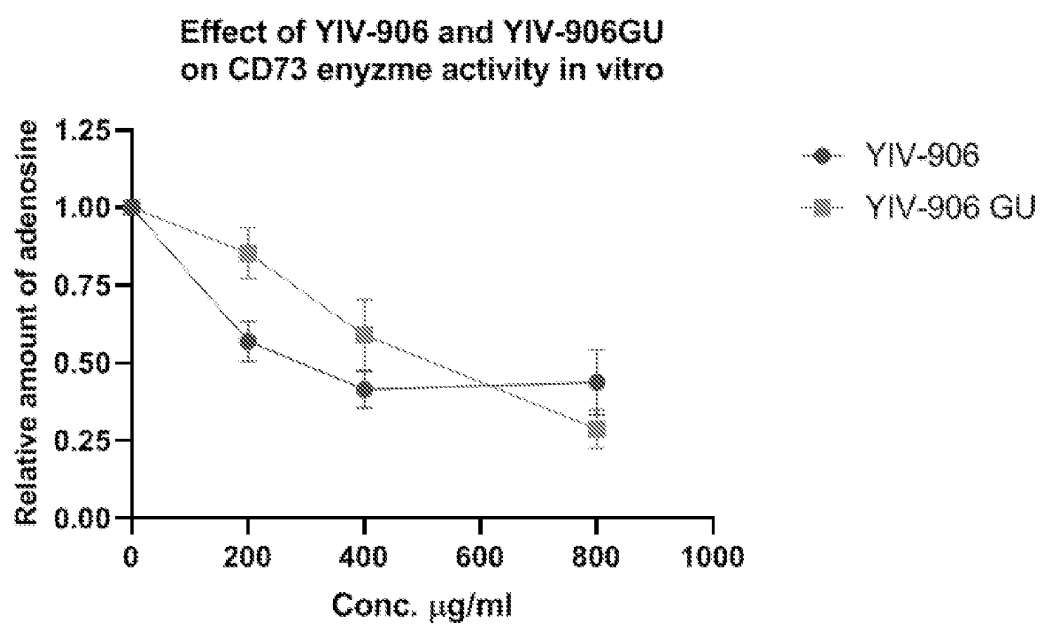


FIG. 11

Compound	Formula	m/z [M-H] ⁻	Hepa 1-6 Tumor	
			YIV-906	YIV-906+Anti-PD1
Baicalein	C ₁₅ H ₁₀ O ₅	269.0458	+	+
Wogonin	C ₁₆ H ₁₂ O ₅	283.0615	+	++
Chrysin	C ₁₅ H ₁₀ O ₄	253.0549	-	-
Oroxylin A	C ₁₆ H ₁₂ O ₅	283.0601	+	++
Baicalin	C ₂₁ H ₁₈ O ₁₁	445.0756	-	-

-: undetected, +: detected, ++: detected with higher amount than +.

FIG. 12C