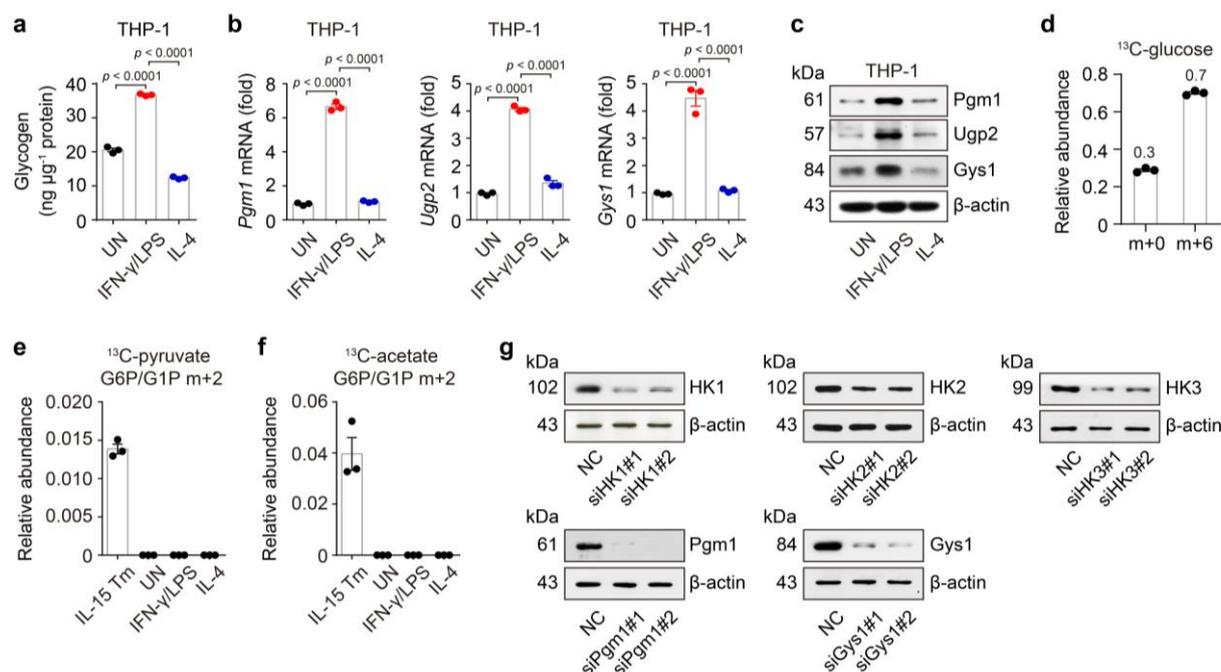


Supplemental information

**Glycogen metabolism regulates macrophage-mediated acute inflammatory
responses**

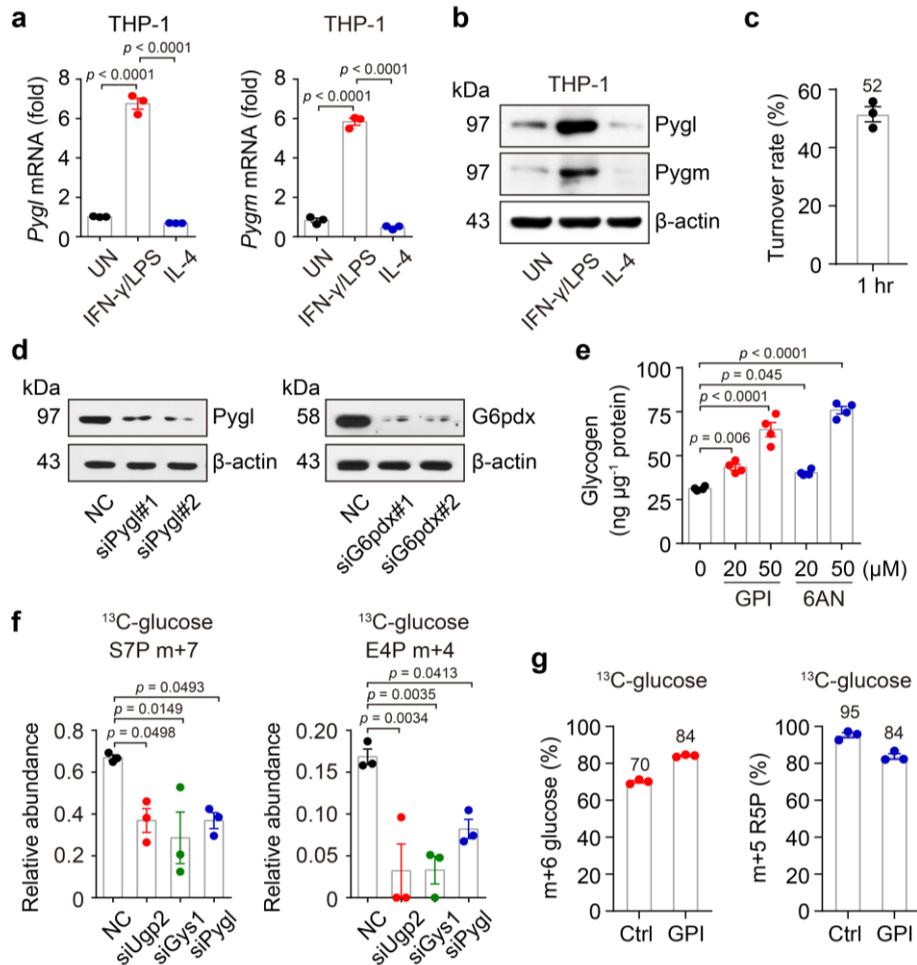
Ma et al.

Supplementary Figures



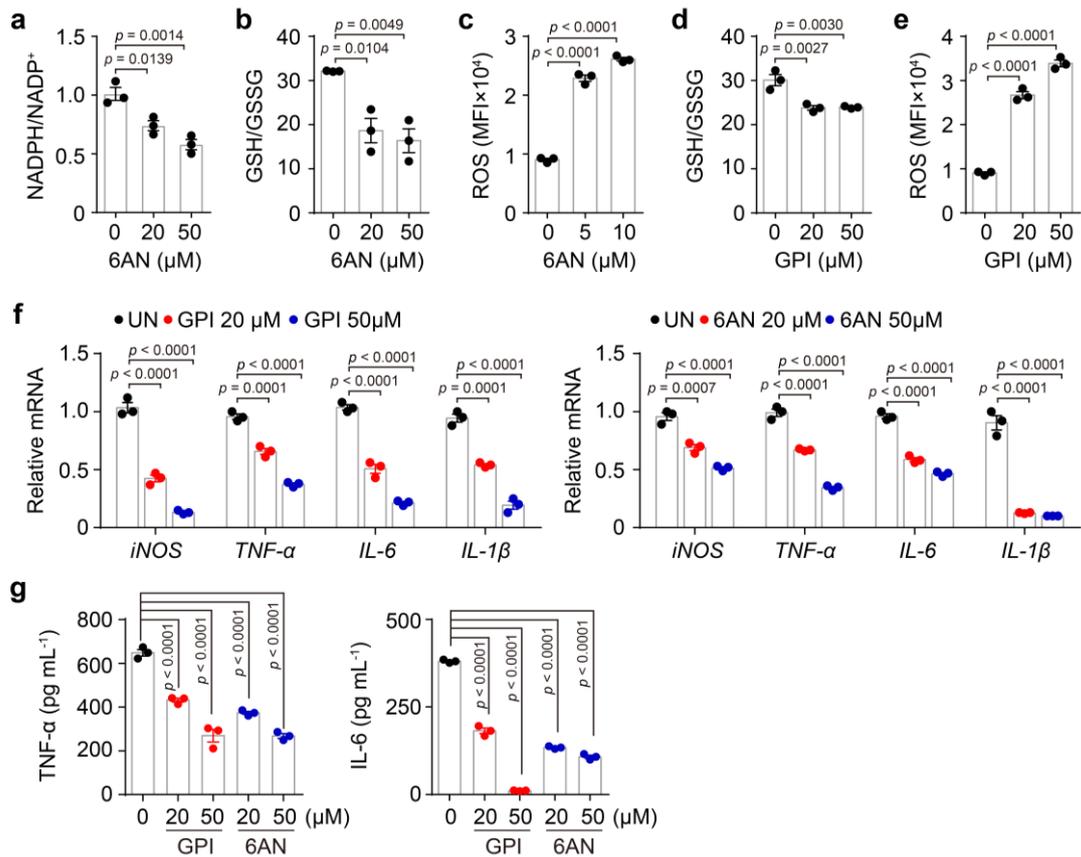
Supplementary Figure 1. Glycogen is Effectively Synthesized in Inflammatory Macrophages, Related to Fig. 1.

a THP-1 cells were cultured with PMA (100 ng mL^{-1}) for 3 days and differentiated into macrophages, followed with IFN- γ /LPS or IL-4 stimulation for 24 hr. Intracellular glycogen levels in untreated, IFN- γ /LPS or IL-4 treated cells were detected by colorimetric assay. **b, c** Pgm1, Ugp2 and Gys1 expression in untreated, IFN- γ /LPS or IL-4 treated THP-1 cells were determined by real-time PCR (**b**) and western blot (**c**). **d** BMDMs cultured and differentiated in ^{13}C -glucose medium for 5 days and then stimulated with IFN- γ /LPS for 24 hours, followed by the treatment with hydrochloric acid, leading to the degradation of polymer glycogen into monomer glucose. The released ^{13}C -labeled glucose was determined by LC-MS/MS. **e, f** BMDMs differentiated in normal ^{12}C -glucose were stimulated with IFN- γ /LPS or IL-4 for 6 hr and switched to ^{13}C -pyruvate (**e**) or ^{13}C -acetate (**f**) for 6 hr, LC-MS/MS was performed for m+2-labelled G6P/G1P. IL-15 induced memory T cells as a positive control. **g** BMDMs were pretransfected with siRNA (HK1/2/3, Pgm1 or Gys1) for 24 hr prior to stimulation with IFN- γ /LPS for 36 hr, HK1/2/3, Pgm1 or Gys1 expression was examined by western blot. **Unless otherwise specified, $n = 3$ biologically independent experiments were performed.** Data are presented as mean \pm SEM. P values were calculated using one-way ANOVA.



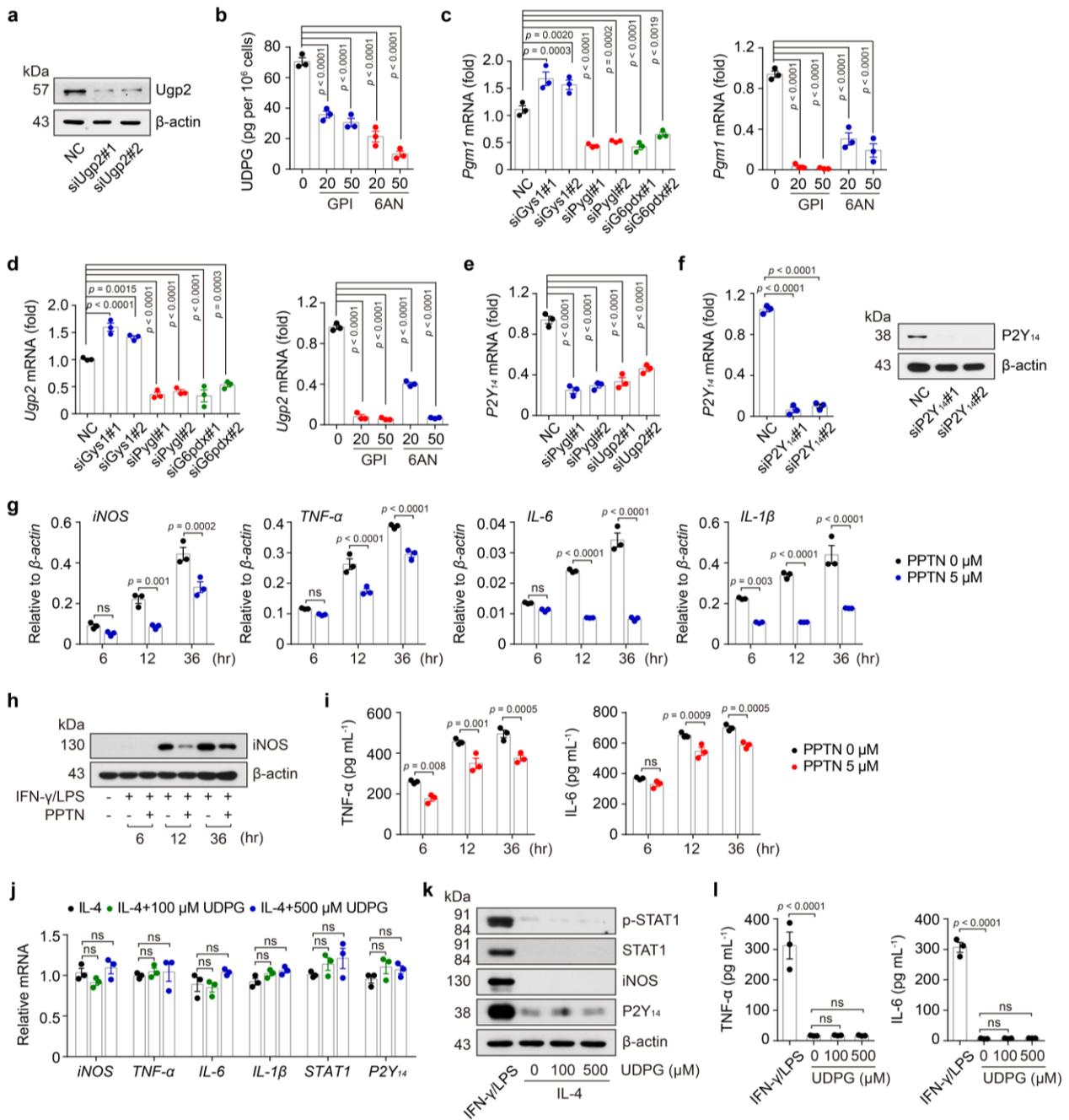
Supplementary Figure 2. Glycogenolysis-derived G6P is Channeled to the PPP, Related to Fig. 2.

a, b THP-1 cells were cultured with PMA (100 ng mL^{-1}) for 3 days and differentiated into macrophages, followed with IFN- γ /LPS or IL-4 stimulation for 24 or 36 hr. Pygl and Pygm expression in untreated, IFN- γ /LPS or IL-4 treated THP-1 cells were determined by real-time PCR (**a**) and western blot (**b**). **c** BMDMs cultured and differentiated in ^{13}C -glucose, were stimulated with IFN- γ /LPS for 24 hours and then switched to ^{12}C -glucose for different time (0 or 1 hr). The cells were collected and treated with hydrochloric acid for the analysis of ^{13}C -labeled monomer glucose. Turnover rate = (m6-0hr minus m6-1hr) / m6-0hr. **d** Murine BMDMs were pretransfected with siRNA (Pygl or G6pdx) for 24 hr prior to stimulation with IFN- γ /LPS for 36 hr, Pygl or G6pdx expression was examined by western blot. **e** Murine BMDMs were pretreated with GPI or 6AN for 30 min prior to stimulation with IFN- γ /LPS for 24 hr, intracellular glycogen levels were detected by colorimetric assay. **f** Murine BMDMs were pretransfected with siRNA (Ugp2, Gys1 or Pygl) for 24 hr prior to stimulation with IFN- γ /LPS for 4 hr and m+7-labelled S7P and m+4-labelled E4P were analyzed by LC-MS/MS. **g** Bone marrow cells were cultured in ^{13}C -glucose medium and induced to differentiate to macrophages. The cells were then treated with or without GPI for 30 min prior to stimulation with IFN- γ /LPS for 24 hr. Cells in each setting were divided into two parts. One part was used for hydrochloric acid treatment and the ^{13}C -labeled monomer glucose was analysis. Another part is used for ^{13}C -labeled R5P detection by LC/MS/MS. Data are presented as mean \pm SEM of $n = 3$ biologically independent experiments (**a, c, f** and **g**) or $n = 4$ biologically independent experiments (**e**). *P* values were calculated using one-way ANOVA.



Supplementary Figure 3. The Glycogen-PPP Pathway Regulates the Phenotype, Function and Survival of Inflammatory Macrophages, Related to Fig. 3.

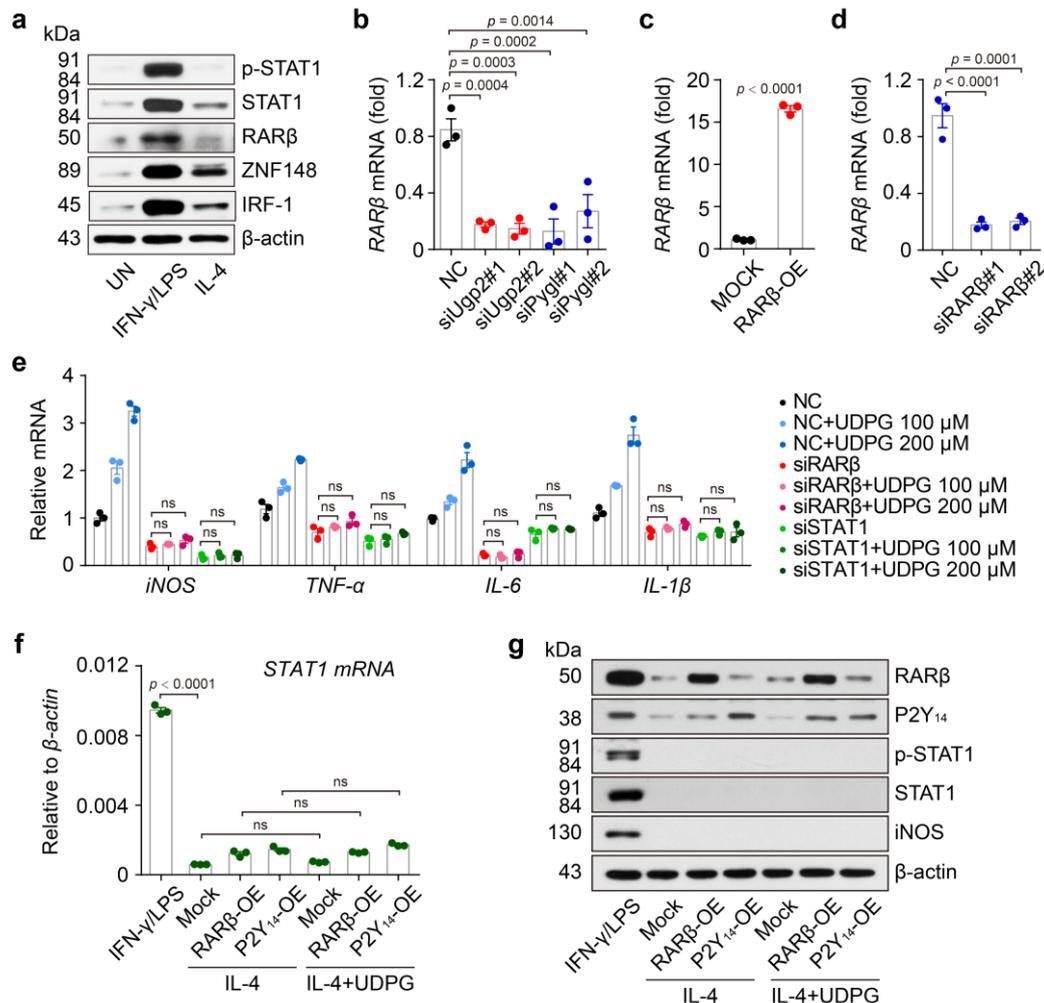
a-e BMDMs were pretreated with 6AN or GPI for 30 min prior to stimulation with IFN-γ/LPS for 24 hr, NADPH/NADP⁺ (**a**), GSH/GSSG (**b, d**) and ROS (**c, e**) were analyzed. **f, g** BMDMs were pretreated with 6AN or GPI for 30 min prior to stimulation with IFN-γ/LPS for 24 hr, *iNOS*, *TNF-α*, *IL-6* and *IL-1β* expression was determined by real-time PCR (**f**) and ELISA (**g**). **Unless otherwise specified, n = 3 biologically independent experiments were performed.** Data are presented as mean ± SEM. *P* values were calculated using one-way ANOVA.



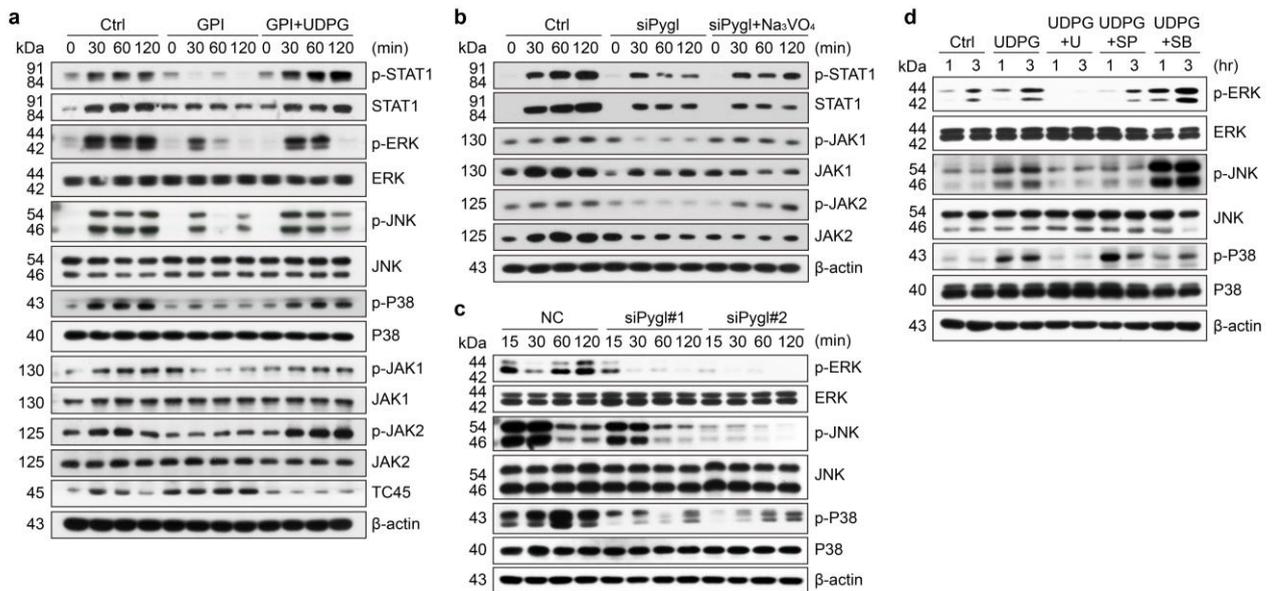
Supplementary Figure 4. Glycogenesis-derived UDPG Regulates Inflammatory Macrophages via P2Y₁₄ receptor, Related to Fig. 4.

a BMDMs were pretransfected with Ugp2 siRNA for 24 hr prior to stimulation with IFN- γ /LPS for 36 hr, Ugp2 expression was examined by western blot. **b** BMDMs were pretreated with GPI or 6AN for 30 min prior to stimulation with IFN- γ /LPS for 24 hr, UDPG in supernatants was determined by ELISA. **c, d** BMDMs were pretransfected with Gys1, Pyg1 or G6pdx siRNA for 24 hr or pretreated with GPI or 6AN for 30 min prior to stimulation with IFN- γ /LPS for 24 hr, Pgm1 and Ugp2 expression was determined by real-time PCR. **e, f** BMDMs were pretransfected with Pyg1, Ugp2 or P2Y₁₄ siRNA for 24 hr prior to stimulation with IFN- γ /LPS for 24 or 36 hr, P2Y₁₄ expression was determined by real-time PCR (**e** and **f**, left) and western blot (**f**, right). **g-i** BMDMs were pretreated with PPTN for 30 min prior to stimulation with IFN- γ /LPS for 6, 12 and 36 hr, iNOS, TNF- α , IL-6 and *IL-1 β* expression was determined by real-time PCR (**g**), western blot (**h**) and ELISA (**i**). **j-l** IL-4

stimulated BMDMs were treated with UDPG (0, 100 or 500 μ M) for 24 or 36 hr, iNOS, TNF- α , IL-6, *IL-1 β* , STAT1 and P2Y₁₄ expression was determined by real-time PCR (**j**), western blot (**k**) and ELISA (**l**). IFN- γ /LPS stimulated BMDMs as a positive control. Unless otherwise specified, n = 3 biologically independent experiments were performed. Data are presented as mean \pm SEM. *P* values were calculated using one-way ANOVA (b-g, j and l) and two-tailed unpaired Student's *t*-tests (i).

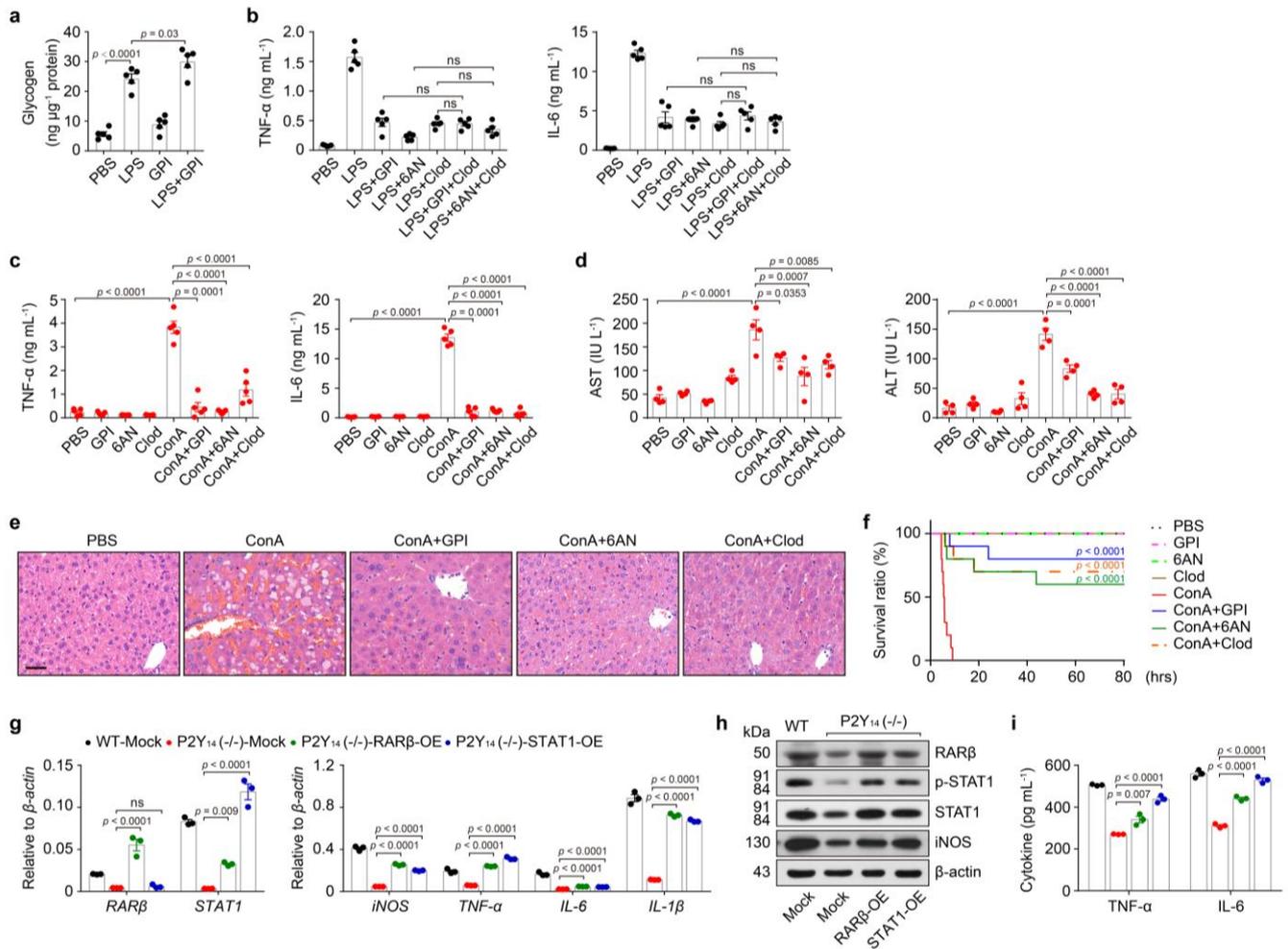


Supplementary Figure 5. UDPG-P2Y₁₄ Signaling Regulates STAT1 expression, Related to Fig. 5. **a** STAT1, ZNF-148, IRF-1 and RARβ expression in untreated, IFN-γ/LPS or IL-4 treated BMDMs was analyzed by western blot. **b** BMDMs were pretransfected with Pygl or Ugp2 siRNA for 24 hr prior to stimulation with IFN-γ/LPS for 24 hr, RARβ expression was determined by real-time PCR. **c**, **d** RARβ siRNA or RARβ-overexpression vectors (RARβ-OE) transfected BMDMs were stimulated with IFN-γ/LPS for 24 hr, RARβ expression was determined by real-time PCR. **e** RARβ or STAT1 siRNA transfected BMDMs were stimulated with IFN-γ/LPS ± UDPG for 24 hr, *iNOS*, *TNFα*, *IL-6* and *IL-1β* expression was determined by real-time PCR. **f**, **g** RARβ-OE or P2Y₁₄-OE transfected BMDMs were stimulated with IL-4 ± UDPG for 24 or 36 hr, RARβ, STAT1, P2Y₁₄ and iNOS expression was determined by real-time PCR (**f**) and western blot (**g**). Unless otherwise specified, $n = 3$ biologically independent experiments were performed. Data are presented as mean ± SEM. P values were calculated using one-way ANOVA (**b**, **d**, **e** and **f**) and two-tailed unpaired Student's t -tests (**c**).



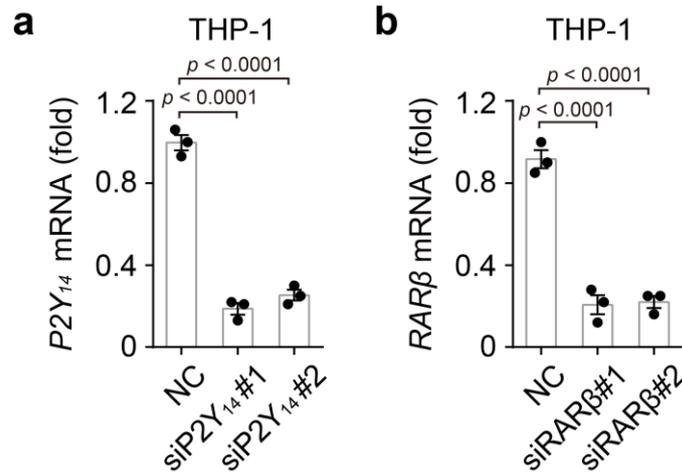
Supplementary Figure 6. UDPG-P2Y₁₄ Signaling Regulates STAT1 Phosphorylation, Related to Fig. 6.

a BMDMs were pretreated with GPI for 30 min prior to stimulation with IFN- γ /LPS \pm UDPG, followed by western blot analysis of STAT1, ERK, JNK, P38, JAK1, JAK2 and TC45 from 0 to 120 min after stimulation. **b** BMDMs were pretransfected with Pygl siRNA alone or combined with Na₃VO₄ for 30 min prior to stimulation with IFN- γ /LPS, followed by western blot analysis of STAT1, JAK1 and JAK2 from 0 to 120 min. **c** BMDMs were pretransfected with Pygl siRNA for 24 hr prior to stimulation with IFN- γ /LPS, followed by western blot analysis of ERK, JNK and P38 from 15 to 120 min. **d** IFN- γ /LPS stimulated BMDMs were treated with UDPG alone or combined with U0126, SP600125 or SB203580 for 1 and 3 hr, followed by western blot analysis of ERK, JNK and P38. Data are from one experiment representative of three experiments.



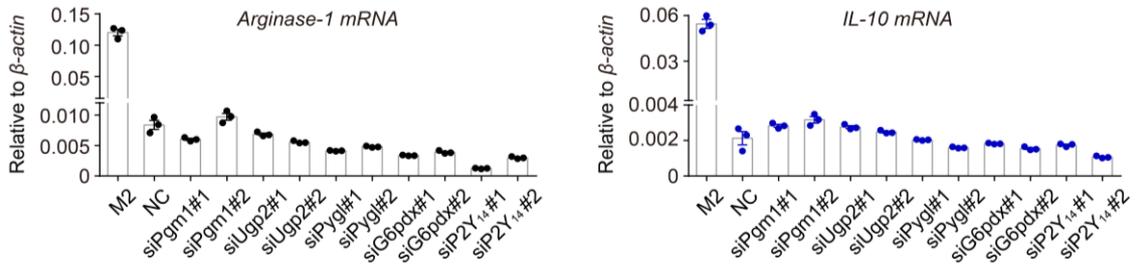
Supplementary Figure 7. Glycogen Metabolism Regulates Macrophage-induced Inflammatory Responses *in vivo*, Related to Fig. 7.

a C57BL/6J mice were treated with GPI (10 $\mu\text{g g}^{-1}$, i.p., 12 and 4 hr before LPS injection) followed by i.p. injection of 20 $\mu\text{g g}^{-1}$ body weight LPS. Four hours later, glycogen levels in peritoneal macrophages were detected by colorimetric assay (n = 5 mice per group). **b** C57BL/6J mice were treated with GPI (10 $\mu\text{g g}^{-1}$, i.p., 12 and 4 hr before LPS injection), 6AN (15 $\mu\text{g g}^{-1}$, i.p., 12 and 4 hr before LPS injection), clodronate liposomes (Clod, 10 $\mu\text{L g}^{-1}$, i.p., 36 and 4 hr before- and 36 hr after- LPS injection), GPI+Clod or 6AN+Clod, followed by i.p. injection of 20 $\mu\text{g g}^{-1}$ body weight LPS. Four hours later, serum levels of TNF- α and IL-6 were detected by ELISA, n = 5 mice per group. **c-f** C57BL/6J mice were treated with GPI, 6AN or clodronate liposomes, followed by i.v. injection of 15 $\mu\text{g g}^{-1}$ body weight ConA. Four hours later, serum levels of TNF- α and IL-6, n = 5 mice per group (**c**), transaminase AST and ALT, n = 4 mice per group (**d**) were detected by ELISA. Liver sections were stained with H&E, scale bar, 40 μm (**e**). The long-term survival of ConA induced hepatitis was recorded, n = 10 mice per group, *p* values are presented relative to ConA group (**f**). **g-i** RAR β -OE or STAT1-OE transfected BMDMs from WT or P2Y₁₄^{-/-} mice were stimulated with IFN- γ /LPS for 24 or 36 hr, RAR β , STAT1, iNOS, TNF- α , IL-6 and IL-1 β expression was determined by real-time PCR, n = 3 mice per group (**g**) western blot (**h**) and ELISA, n = 3 mice per group (**i**). Unless otherwise specified, n = 3 independent experiments were performed. Data are presented as mean \pm SEM. *P* values were calculated using one-way ANOVA (a-d, g and i) and two-sided log-rank (Mantel-Cox) test (f).



Supplementary Figure 8. Glycogen Metabolism Regulates Inflammatory Responses in Human Macrophages and Septic Patients, Related to Fig. 8.

a $P2Y_{14}$ siRNA transfected THP-1 cells were stimulated with IFN- γ /LPS for 24 hr, $P2Y_{14}$ expression was determined by real-time PCR. **b** $RAR\beta$ siRNA transfected THP-1 cells were stimulated with IFN- γ /LPS for 24 hr, $RAR\beta$ expression was determined by real-time PCR. Data are presented as mean \pm SEM of $n = 3$ biologically independent experiments. P values were calculated using one-way ANOVA.



Supplementary Figure 9. Blocking the glycogen-PPP or UDPG-P2Y14 pathway did not switch inflammatory macrophages toward anti-inflammatory phenotype. BMDMs were pretransfected with siRNAs (Pgm1, Ugp2, Pygl, G6pdx or P2Y₁₄) for 24 hr prior to stimulation with IFN- γ /LPS for 24 hr, *arginase-1* and *IL-10* expression was determined by real-time PCR. Data are presented as mean \pm SEM of n = 3 biologically independent experiments.

Supplementary Table 1. Clinical information of Sepsis and SIRS patients.

1. Sepsis patients

NO	Age	Gender	WBC ($\times 10^9 \text{ L}^{-1}$)	Sequential Organ Failure Assessment, SOFA					
				Respiration	Coagulation	Liver	Cardiovascular	Nervous	Renal
				PaO ₂ mm Hg	Platelets ($\times 10^3 \mu\text{L}^{-1}$)	Bilirubin ($\mu\text{mol L}^{-1}$)	Dopamine mg (kg·min) ⁻¹	Glasgow score	Creatinine ($\mu\text{mol L}^{-1}$)
1	55	M	12.69	321	83	27.0	0	15 (4+5+6)	116.8
2	58	M	21.63	212	75	29.8	6.0	8 (2+2+4)	76.6
3	44	M	13.33	280	97	31.2	0	12 (3+4+5)	85.2
4	49	F	14.14	243	78	41.6	0	12 (3+4+5)	261.2
5	60	F	13.83	332	50	60.0	0	14 (3+5+6)	62.0
6	66	M	18.27	355	78	26.3	5.0	13 (3+4+6)	82.3
7	33	M	23.08	86	84	32.6	8.0	2 (1+T+1)	106.6
8	58	M	2.52	244	30	187.3	7.0	10 (2+4+4)	158.0
9	54	M	14.30	282	79	89.6	0	14 (3+5+6)	139.0
10	52	M	18.31	366	250	30.7	3.0	13 (3+4+6)	217.4
11	50	M	12.60	265	94	16.9	0	14 (3+5+6)	129.2
12	37	M	14.60	347	73	14.1	0	14 (3+5+6)	278.1
13	35	F	12.37	351	268	284.6	0	13 (3+4+6)	246.2
14	65	M	14.83	189	172	51.3	0	12 (3+4+5)	102.6
15	62	F	13.62	292	172	63.6	0	12 (3+4+5)	83.8
16	65	M	22.50	118	76	27.4	3.5	6 (2+T+6)	132.8
17	69	M	13.00	476	94	12.2	0	15 (4+5+6)	245.6
18	50	M	19.90	355	220	14.9	4.0	13 (3+4+6)	270.6
19	45	F	10.87	352	57	39.7	0	13 (3+4+6)	506.7
20	65	M	17.70	260	75	8.8	2.0	13 (3+4+6)	98.8
21	55	M	14.09	440	13	841.1	0	14 (3+5+6)	54.3
22	71	M	12.48	284	75	21.4	0	14 (3+5+6)	101.6
23	69	F	2.58	136	40	27.3	7.0	7 (3+T+4)	43.5
24	48	M	29.77	277	203	22.5	5.5	12 (3+4+5)	251.9
25	44	M	16.60	292	83	95.7	0	11 (2+4+5)	140.0

2. SIRS patients

NO	Age	Gender	WBC ($\times 10^9 \text{ L}^{-1}$)	Sequential Organ Failure Assessment, SOFA					
				Respiration	Coagulation	Liver	Cardiovascular	Nervous	Renal
				PaO ₂ mm Hg	Platelets ($\times 10^3 \mu\text{L}^{-1}$)	Bilirubin ($\mu\text{mol L}^{-1}$)	Dopamine mg (kg·min) ⁻¹	Glasgow score	Creatinine ($\mu\text{mol L}^{-1}$)
1	3	M	17.85	352	274	16.6	0	15 (4+5+6)	32.9
2	6	M	12.32	321	150	11.3	0	15 (4+5+6)	61.2
3	56	F	13.47	317	146	18.1	0	15 (4+5+6)	107.7
4	49	M	13.54	325	229	18.6	0	15 (4+5+6)	62.4
5	55	F	12.56	308	123	21.8	0	15 (4+5+6)	54.2
6	58	F	13.05	330	130	25.3	0	15 (4+5+6)	36.8
7	54	M	14.31	301	307	18.6	0	15 (4+5+6)	61.3
8	54	F	17.91	366	176	7.1	0	15 (4+5+6)	48.6
9	4	M	15.78	402	173	14.0	0	15 (4+5+6)	32.8
10	46	M	16.76	310	139	11.1	0	15 (4+5+6)	65.1
11	3	M	12.15	398	303	9.6	0	15 (4+5+6)	35.3
12	65	F	12.45	300	149	5.7	0	15 (4+5+6)	76.9
13	42	M	19.50	371	440	6.0	0	15 (4+5+6)	99.8
14	3	F	16.11	389	376	20.2	0	15 (4+5+6)	42.7
15	51	M	18.04	311	133	27.2	0	15 (4+5+6)	91.9
16	5	F	13.03	368	257	7.3	0	15 (4+5+6)	31.1
17	37	M	16.17	325	298	14.8	0	15 (4+5+6)	104.3
18	4	F	12.68	422	232	7.0	0	15 (4+5+6)	58.5
19	56	M	16.79	309	430	10.1	0	15 (4+5+6)	39.6
20	3	F	12.25	386	330	26.0	0	15 (4+5+6)	31.7
21	59	M	14.56	362	202	12.8	0	15 (4+5+6)	129.1
22	55	M	18.55	345	273	15.7	0	15 (4+5+6)	82.4
23	64	M	19.31	301	251	11.5	0	15 (4+5+6)	134.4
24	60	M	16.00	301	158	19.2	0	15 (4+5+6)	57.7
25	59	F	12.35	335	232	16.4	0	15 (4+5+6)	92.0
26	38	M	14.70	382	257	25.6	0	15 (4+5+6)	98.1
27	65	F	19.46	341	137	18.3	0	15 (4+5+6)	79.2
28	50	M	19.02	327	322	21.0	0	15 (4+5+6)	34.7

Supplementary Table 2. siRNA Sequence.

Gene	siRNA	Sequence
Mouse HK1	siRNA#1	GCTGCTGAATAAAGCCATT
	siRNA#2	GATCGAGAGTGACCGATTA
Mouse HK2	siRNA#1	CCAAAGATGTCTCGGATAT
	siRNA#2	GAAGGATGAAGGTGGAAAT
Mouse HK3	siRNA#1	GTCTGAAGCTTGGGTTCAA
	siRNA#2	ACTGCATCGTGGACTTCCA
Mouse Pygl	siRNA#1	CCATTTACCAGCTTGGATT
	siRNA#2	CCAATCAGCCAGACCTCTT
Mouse P2Y ₁₄ receptor	siRNA#1	GCCGCAATATCTTCAGCAT
	siRNA#2	GCATGGAGCTCAAAAACGA
Mouse Ugp2	siRNA#1	GCAAAGGATGTGTCTTATT
	siRNA#2	CCACAGTGGATCTTTATAT
Mouse Stat1	siRNA#1	CTGTGATGTTAGATAAACA
	siRNA#2	GCAGCACAACATACGGAAA
Mouse Gys1	siRNA#1	CCTGGAGAATTTCAATGTA
	siRNA#2	GCACCTGGACTTC AACCTA
Mouse G6pdx	siRNA#1	CCTCAACAGCCACATGAAT
	siRNA#2	CCAACAGTGCAAGCGTAAT
Mouse RAR β	siRNA#1	GCTGGAGAATTCTGAAGGA
	siRNA#2	GAACGTGTAATTACCTTGA
Mouse Pgm1	siRNA#1	GTTCTGTATACCTCTTCT
	siRNA#2	CCATGATCAGGGCACAATT
Mouse TC45	siRNA#1	ACAGAGTGATGGTTGAGAA
	siRNA#2	AGAGAATAGGTTTCAGAAGA
Human P2Y ₁₄ receptor	siRNA#1	CCTACTCAATGGAGTGTCA
	siRNA#2	GAGTGTTAGGGAGGTTACA
Human RAR β	siRNA#1	AGACGGCCTTACCCTAAAT
	siRNA#2	GATCGTGGAGTTTGCTAAA

Supplementary Table 3. Primer sequence.

Gene	Primer	Primer sequence
Mouse <i>Gys1</i>	FW	CACAGAACGGTTGTCGGACTTG
	RV	AGGTGAAGTGGTCTGGAAAGGC
Mouse <i>Pgm1</i>	FW	AGCCAATGACCCAGATGCTGAC
	RV	TCCAGGAAGTGAAGAGCCACCA
Mouse <i>Ugp2</i>	FW	CTGATGAACCCACCCAATGGGA
	RV	GAGCGATTTCCACCAGTCTCAG
Mouse <i>Pck1</i>	FW	GGCGATGACATTGCCTGGATGA
	RV	TGTCTTCACTGAGGTGCCAGGA
Mouse <i>Fbp1</i>	FW	TGCTGAAGTCGTCCTACGCTAC
	RV	TTCCGATGGACACAAGGCAGTC
Mouse <i>G6pase</i>	FW	AGGTCGTGGCTGGAGTCTTGTC
	RV	GTAGCAGGTAGAATCCAAGCGC
Mouse <i>HK1</i>	FW	CGGAATGGGGAGCCTTTGG
	RV	GCCTTCCTTATCCGTTTCAATGG
Mouse <i>HK2</i>	FW	ATGCGTAATGTGGAAGTGGTG
	RV	GCTGATCATCTTCTCAAACCTCTG
Mouse <i>HK3</i>	FW	TGCTGCCCACATACGTGAG
	RV	GCCTGTCAGTGTTACCCACAA
Mouse <i>Slc2a1</i>	FW	CAGTTCGGCTATAAACTGGTG
	RV	GCCCCGACAGAGAAGATG
Mouse <i>Slc2a2</i>	FW	TCAGAAGACAAGATCACCGGA
	RV	GCTGGTGTGACTGTAAGTGGG
Mouse <i>Pygl</i>	FW	GGCAGAAGTGGTGAACAATGACC
	RV	TCCGATAGGTCTGTGGCTGGAA
Mouse <i>Pygm</i>	FW	ATGGCACACCTGTGCATTGCTG
	RV	CGAGGAGTGATGCCATTGGTCT
Mouse <i>G6pdx</i>	FW	GACCAAGAAGCCTGGCATGTTC
	RV	AGACATCCAGGATGAGGCGTTC
Mouse <i>6Pgd</i>	FW	CATCGCTGCAAAGTGGGAACC
	RV	AGCCTCACAGATGAGCTGCATG
Mouse <i>iNOS</i>	FW	GAGACAGGGAAGTCTGAAGCAC
	RV	CCAGCAGTAGTTGCTCCTCTTC
Mouse <i>TNF-α</i>	FW	GGTGCCTATGTCTCAGCCTCTT
	RV	GCCATAGAAGTATGAGAGGGAG
Mouse <i>IL-6</i>	FW	TAGTCCTTCCCTACCCCAATTTCC
	RV	TTGGTCCTTAGCCACTCCTTC

Mouse <i>IL-1β</i>	FW	GCAACTGTTCTGAACTCAACT
	RV	ATCTTTTGGGGTCCGTCAACT
Mouse <i>P2Y₁₄</i>	FW	ACCTCCGTCAAGAGGAAGTCCA
	RV	GCTGTAGTGACCTTCCGTCTGA
Mouse <i>Stat1</i>	FW	GCCTCTCATTGTCACCGAAGAAC
	RV	TGGCTGACGTTGGAGATCACCA
Mouse <i>RARβ</i>	FW	GCTTCGTTTGCCAGGACAAGTC
	RV	TGGCATCGGTTCTTAGTGACCT
Mouse <i>β-actin</i>	FW	GGCTGTATTCCCCTCCATCG
	RV	CCAGTTGGTAACAATGCCATGT
Human <i>Gys1</i>	FW	CCGCTATGAGTTCTCCAACAAGG
	RV	AGAAGGCAACCACTGTCTGCTC
Human <i>Pgm1</i>	FW	TGATGGACGCGAGCAAAGTGC
	RV	ATGTCCTCCACACTCTGCTTGC
Human <i>Ugp2</i>	FW	GCAGGAGCAAAATGCCATTGACA
	RV	CAGAAAACGGCTCCTTGGCACA
Human <i>Pygl</i>	FW	CACTTCAGTGGCAGATGTGGTG
	RV	GCAGTGGAAATCTGCTCTGACAG
Human <i>Pygm</i>	FW	ATGGCACACCTGTGCATTGCTG
	RV	CGAGGAGTGATGCCATTGGTCT
Human <i>iNOS</i>	FW	GCTCTACACCTCCAATGTGACC
	RV	CTGCCGAGATTTGAGCCTCATG
Human <i>TNF-α</i>	FW	CTCTTCTGCCTGCTGCACTTTG
	RV	ATGGGCTACAGGCTTGTCACTC
Human <i>IL-6</i>	FW	ACTCACCTCTTCAGAACGAATTG
	RV	CCATCTTTGGAAGGTTCAAGTTG
Human <i>IL-1β</i>	FW	CCACAGACCTTCCAGGAGAATG
	RV	GTGCAGTTCAGTGATCGTACAGG
Human <i>P2Y₁₄</i>	FW	GCCGCAACATATTCAGCATCGTG
	RV	GCTGTAATGAGCTTCGGTCTGAC
Human <i>Stat1</i>	FW	ATGGCAGTCTGGCGGCTGAATT
	RV	CCAAACCAGGCTGGCACAATTG
Human <i>RARβ</i>	FW	GGTTTCACTGGCTTGACCATCG
	RV	CCGTCTGAGAAAGTCATGGTGTC
Human <i>β-actin</i>	FW	CACCATGGCAATGAGCGGTTT
	RV	AGGTCTTTGCGGATGTCCACGT

Full unedited and uncropped gels

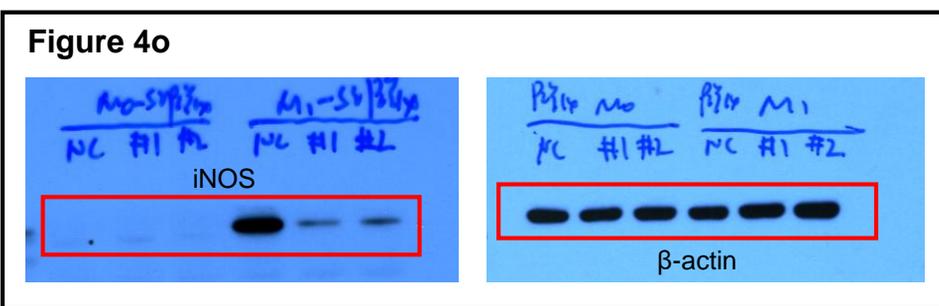
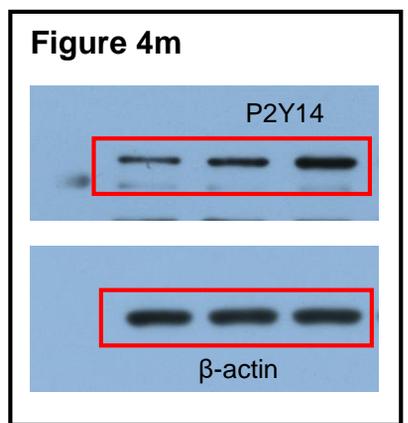
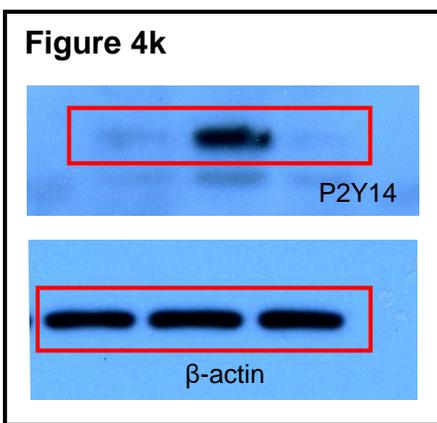
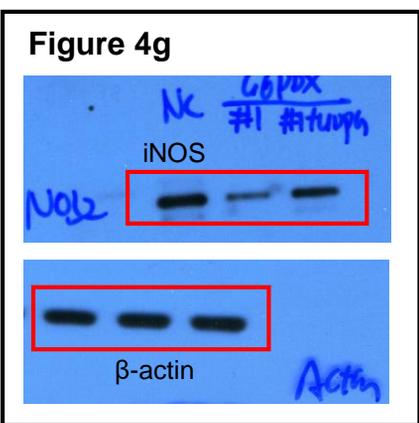
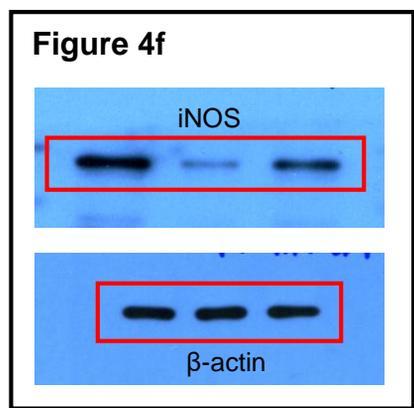
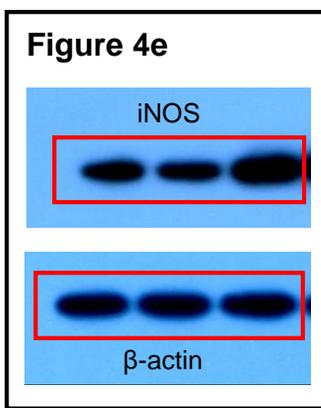
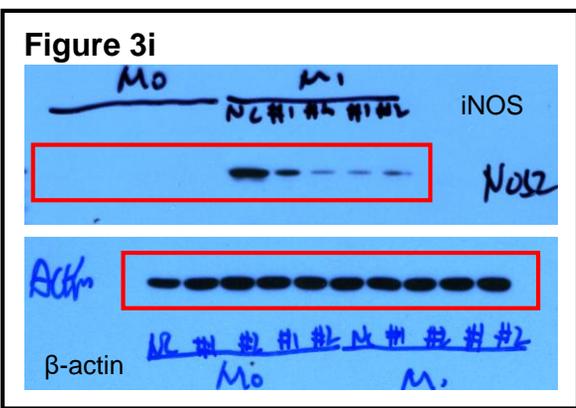
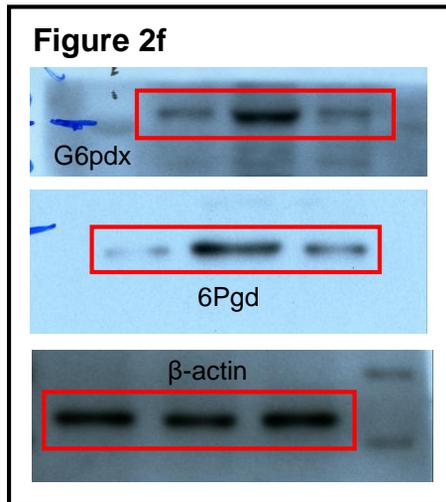
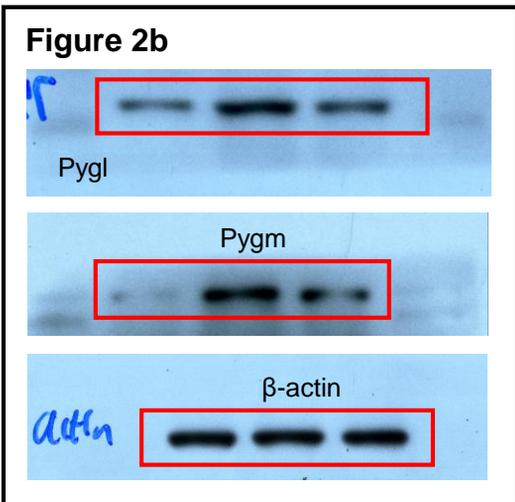
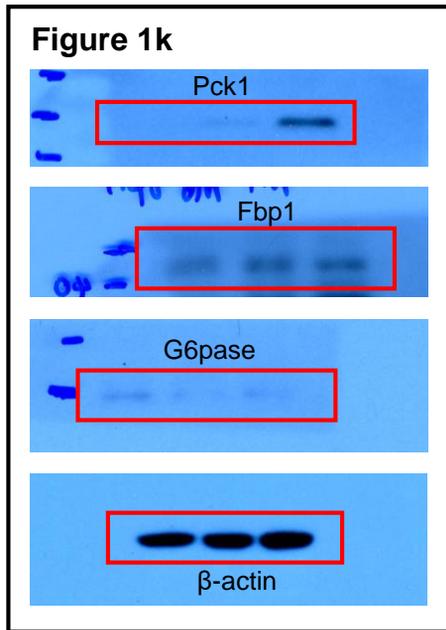
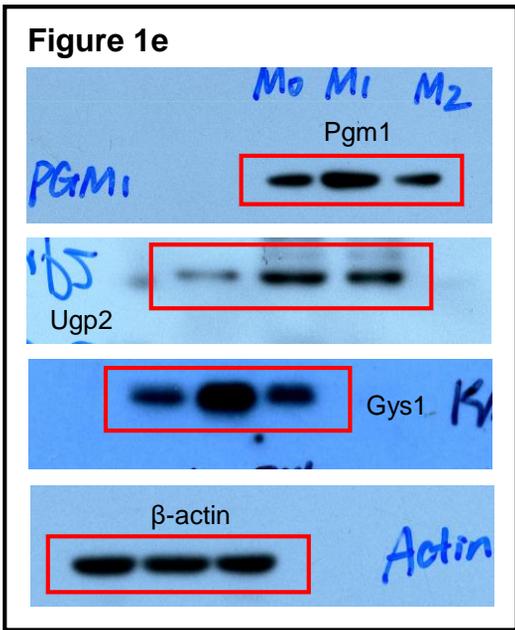


Figure 5c

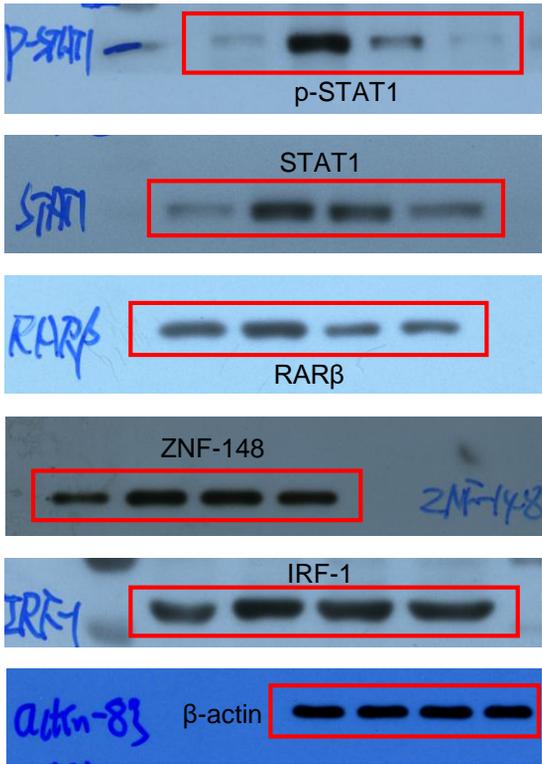


Figure 5d

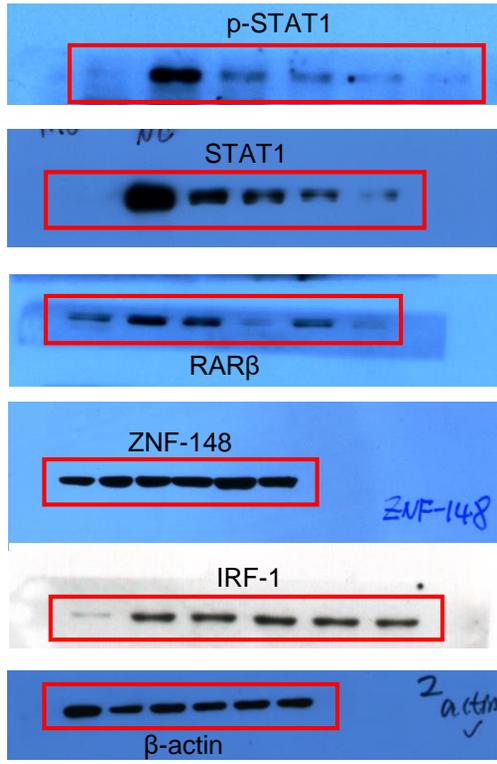


Figure 5k

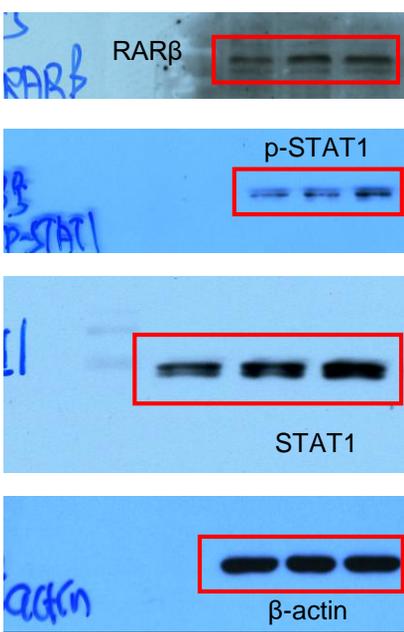


Figure 5m

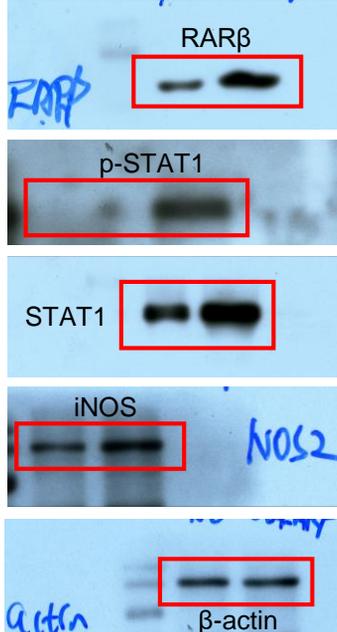


Figure 5p

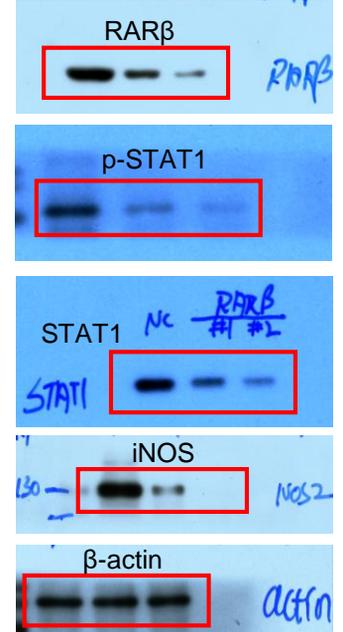


Figure 6a

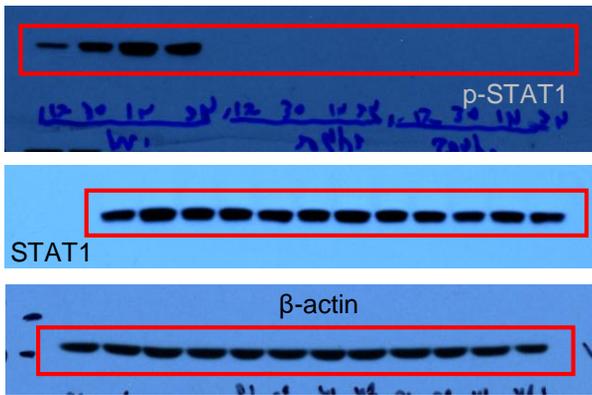


Figure 6b



Figure 6d



Figure 6e

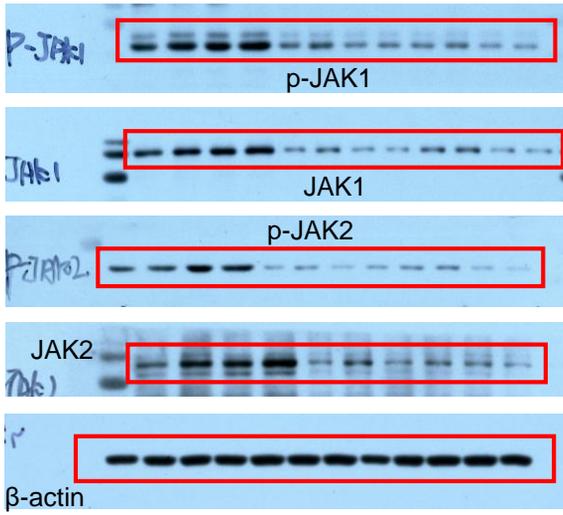


Figure 6f

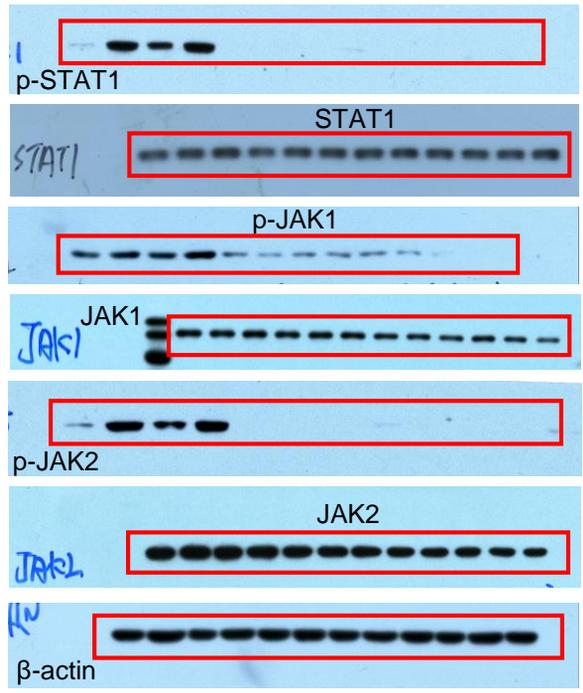


Figure 6g

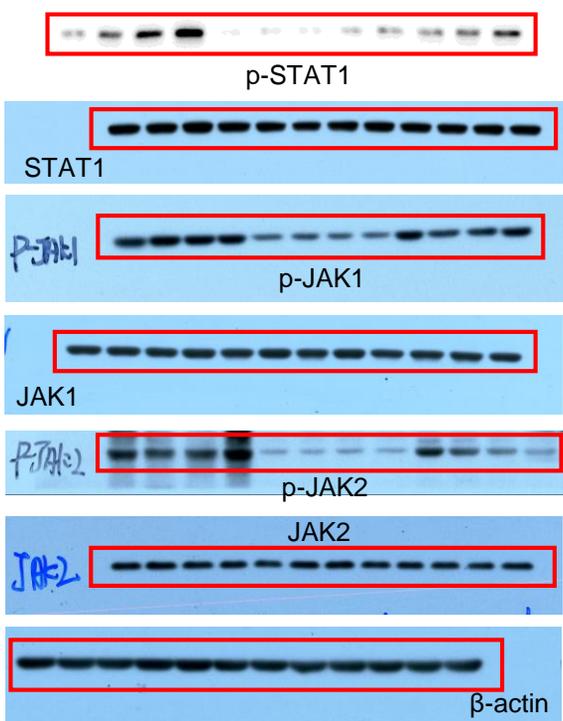


Figure 6h

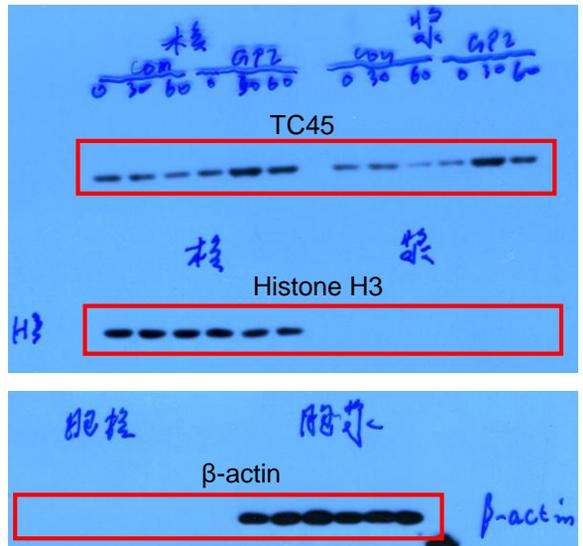


Figure 6i

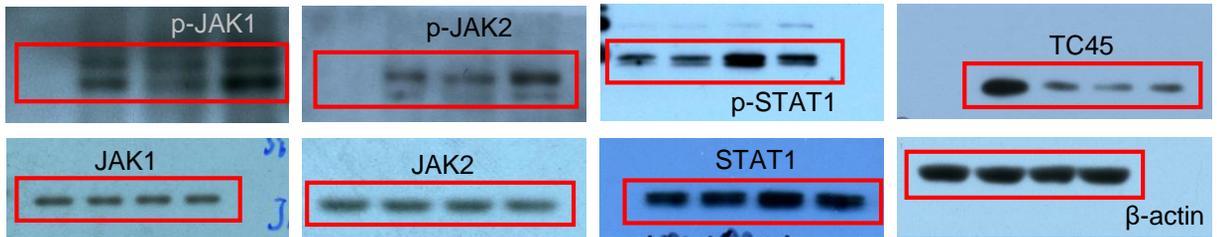


Figure 6j

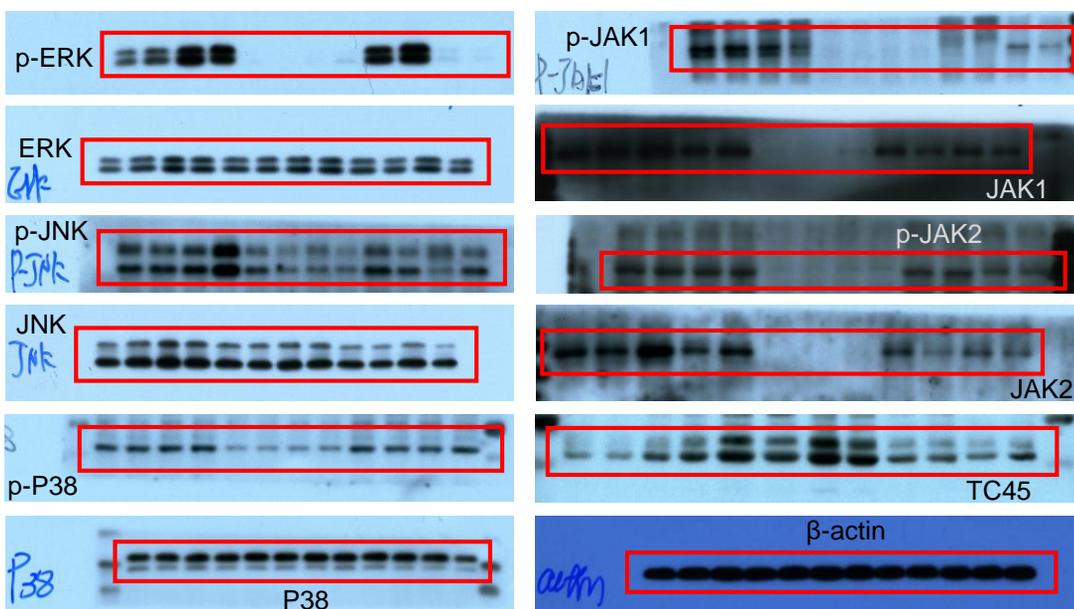


Figure 6k

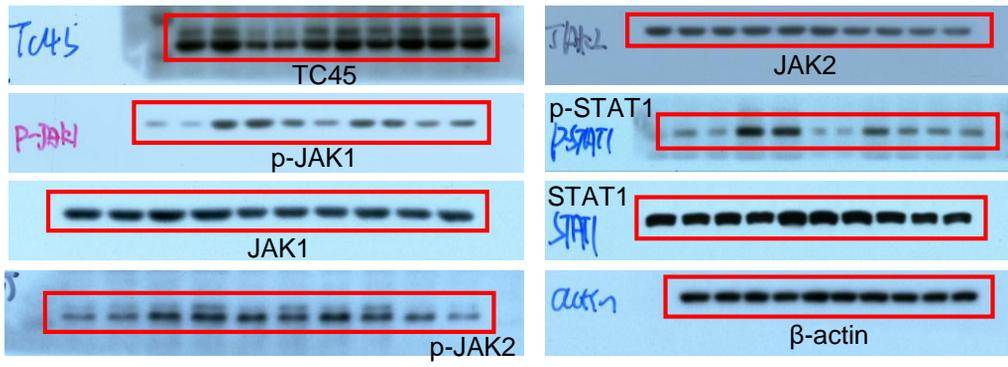


Figure 7n

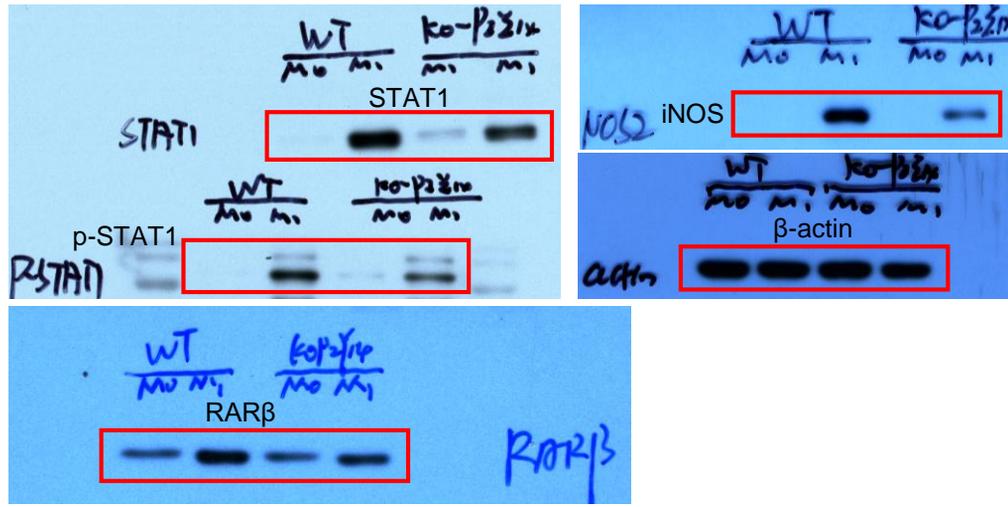


Figure 8e

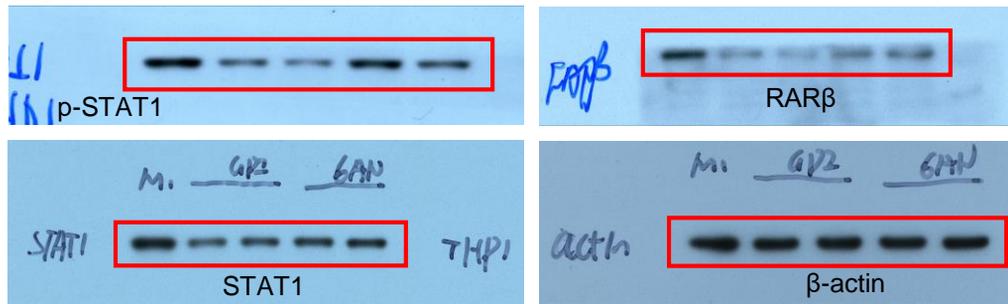


Figure 8g

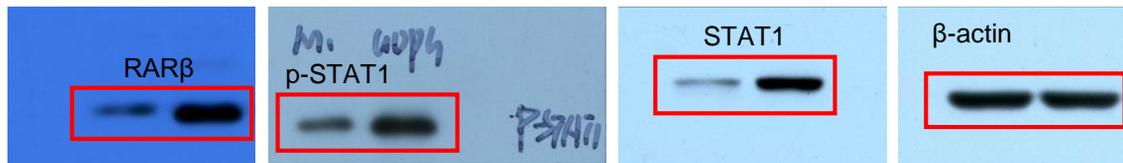


Figure S1c

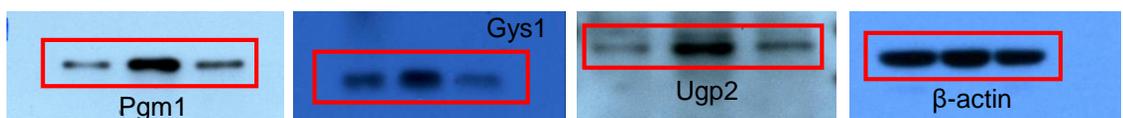


Figure S1f

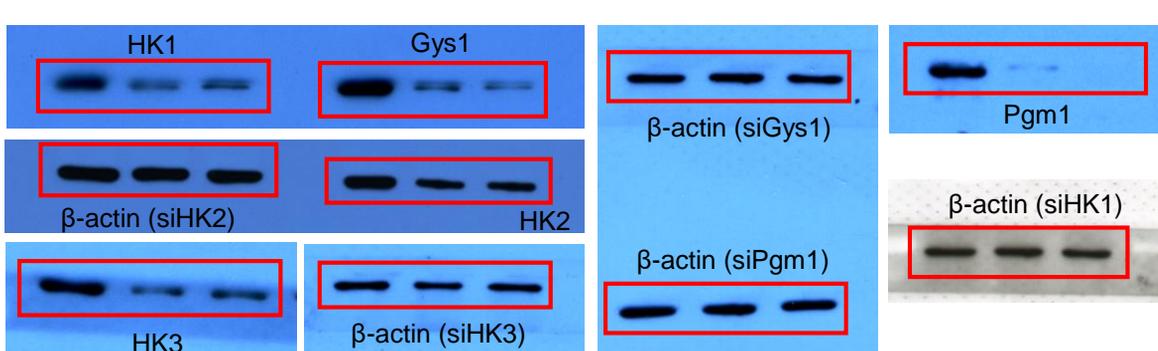


Figure S2b

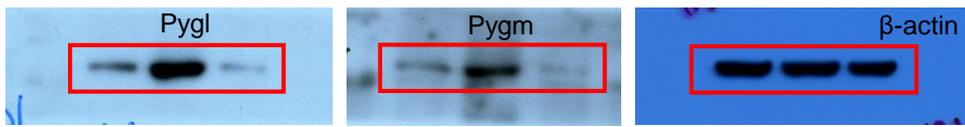


Figure S2d

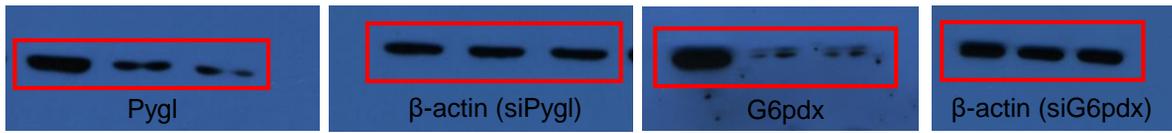


Figure S4a

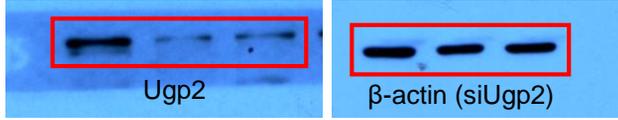


Figure S4f

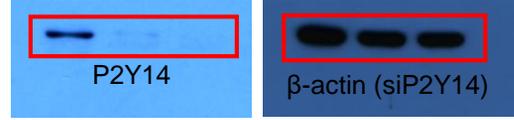


Figure S4h

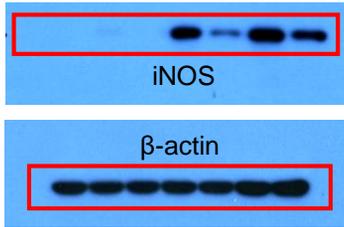


Figure S4k

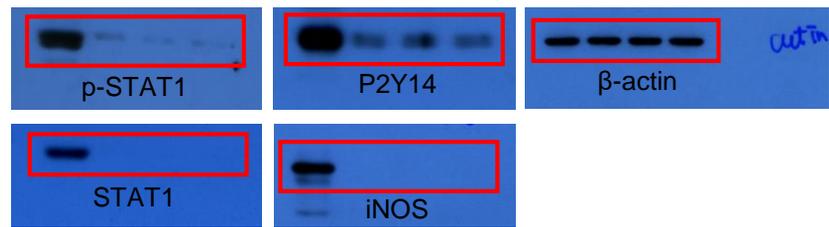


Figure S5a

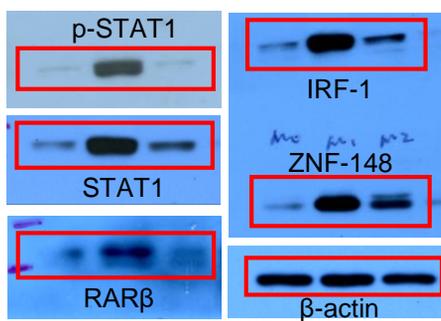


Figure S5g

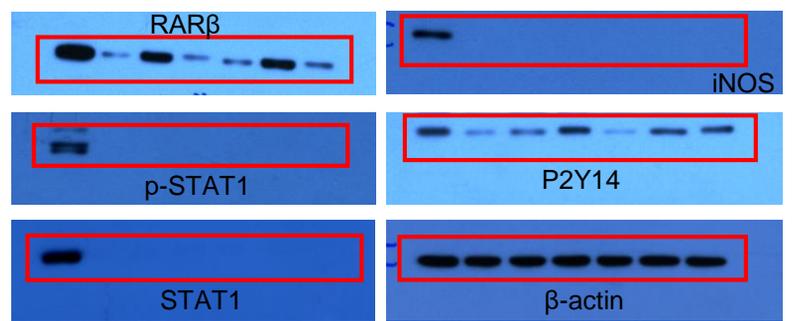


Figure S6a

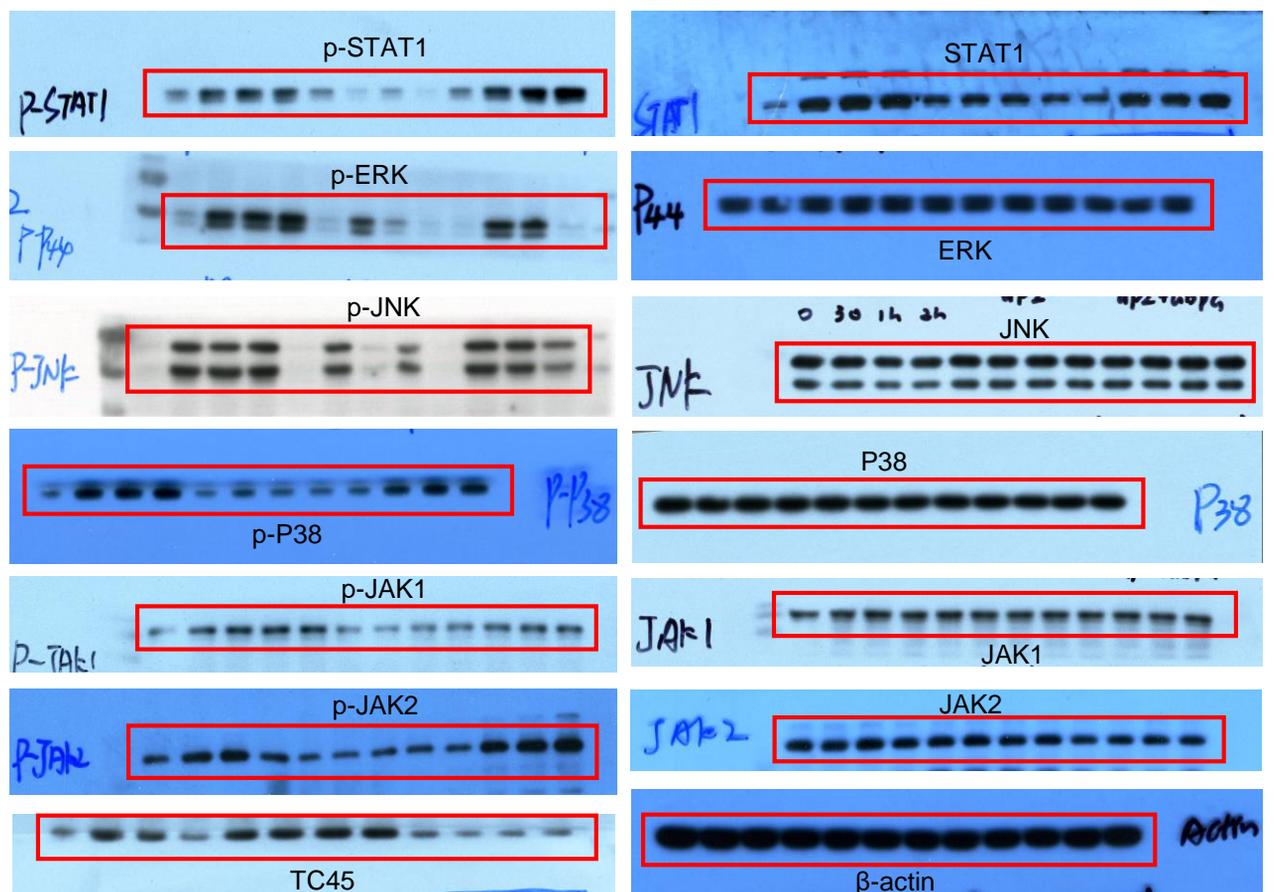


Figure S6b

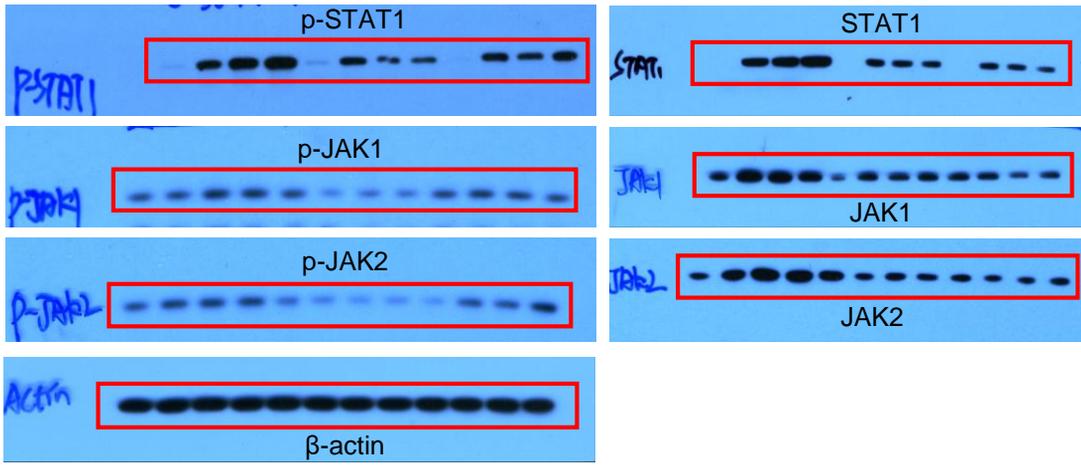


Figure S6c

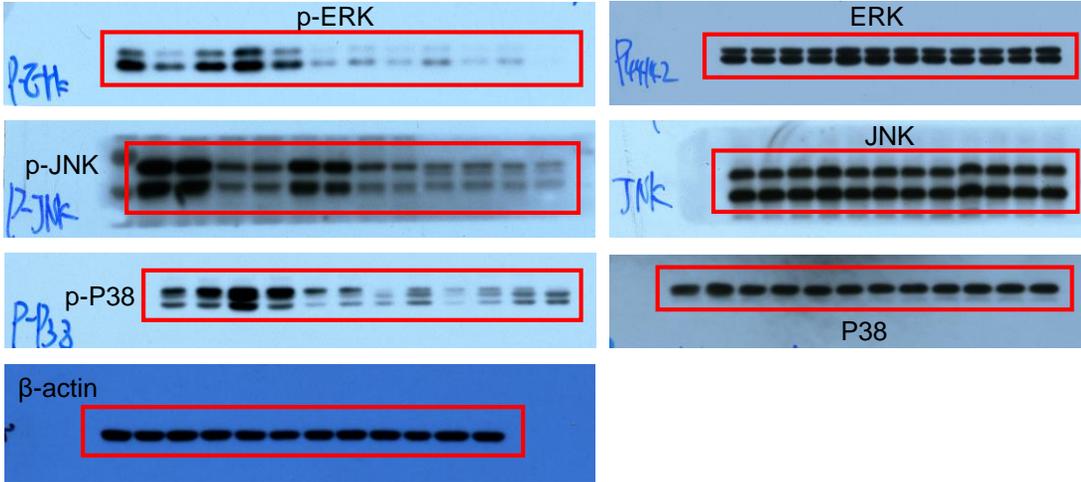


Figure S6d

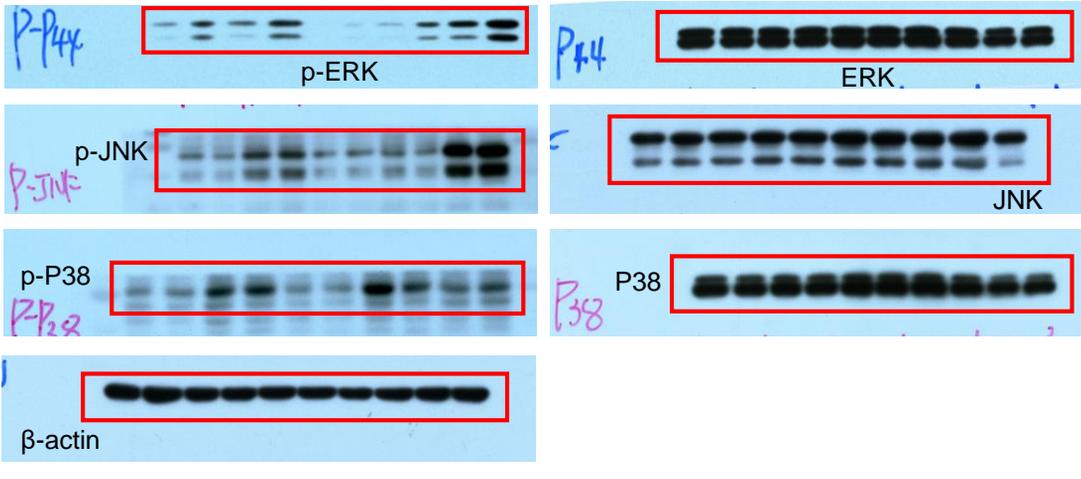


Figure S7h

