

Table S1 Primer sequences used to construct the plasmids

Types	Name	Sequences 5'-3'
Overexpression plasmid	Flag-FXR-F	GGAAGATCTCATGGGATCAAAAATGAATCT
	Flag-FXR-R	CGCGGATCCTCACTGCACGTCCCAGATTT
Luciferase plasmids	IKBKG pGL4.23 F	CGGGGTACCAAAGTGCTGGCATTACAGGC
	IKBKG pGL4.23 R	CCCAAGCTTCAATCTCCACCTGCGAGGTT
Luciferase plasmids overlap mutation	IKBKG Overlap F1	GAGGGTGAGACGGAGTCTCACTGGAGTTCGAGACCAGCCTGG
	IKBKG Overlap R1	AACTCCAGTGAGACTCCGTCTCACCCTCCTCAGCCTCCCAAA
	IKBKG Overlap F2	TGGGTAGCCAAGATTGCGCGGAGATTGAGACCATCCTGG
	IKBKG Overlap R2	ATCTCCGCGCAATCTTGGCTACCCACCTCAACCTCCCAAA

F, forward; FXR, farnesoid X receptor; IKBKG, inhibitor of nuclear factor kappa B kinase regulatory subunit gamma; R, reverse.

Table S2 Sequences of qPCR primers

Species	Gene	Forward primer	Reverse primer
Human	18s	CCTTTGCCATCACTGCCATT	CACACGTTCCACCTCATCCTC
	MCP-1	TAGCAGCCACCTTCATTCCC	TGCTTGGGGTCAGCACAGAT
	IL-1 α	GGAGCTTGTACCCCCAACT	TCCGAAGTCAAGGGGCTAGA
	ICAM-1	GAGCTGTTTGAGAACACCTC	ATAGGTGACTGTGGGGTTCA
	TNF α	GCGCTC CCCAAGAAGA CAGG	GCTGATTAGAGAGAGGTCCC
	IP-10	TCCACGTGTTGAGATCATTGCT	TGCATCGATTTTGCTCCCCT
	IL-6	GATGAGTACAAAAGTCCTGA	GCCCATGCTACATTTGCCGA
	MMP2	AATACCATCGAGACCATGCG	GATCAGGTGTGTAGCCAATG
	TGF β 2	CCATCCCGCCCACTTTCTAC	AGCTCAATCCGTTGTTCAGGC
	INOS	GATAAGTGACATAAGTGACC	CTGAGGTTGTGATACTGAAG
	IL-1 β	AACCTCTTCGAGGCACAAGG	CATTGCCACTGTAATAAGCCATCA
	p53	GAGGTTGGCTCTGACTGTACC	TCCGTCCCAGTAGATTACCAC
	p21	TGTCCGTCAGAACCCATGC	AAAGTCGAAGTCCATCGCTC
	BAK	GGCTGCACAGGGACAAGTAA	GGACGGGATCAGCCTGC
	BAX	TGGGCTGGACATTGGACTTC	GAGACAGGGACATCAGTCGC
	BIM	GTATTCGGTTCGCTGCGTTC	CCTCATGGAAGCTTGTGGCT
	Caspase3	GCGGTTGTAGAAGAGTTTCGTG	TCACGGCCTGGGATTTCAAG
Mouse	36b4	GCCCTGCACTCTCGCTTTCT	CAACTGGGCACCGAGGCAACAGTTG
	MMP2	CATCGCCCATCATCAAGTTC	ATGGTCTCGATGGTGTCTG
	ICAM-1	TGTGACCAGCCCCAAGTTGTT	TGGAGTCCAGTACACGGTGA
	IL-10	TAAGGCTGGCCACACTTGAG	TGAGCTGCTGCAGGAATGAT
	MCP-1	ATGCTTCTGGGCCTGCTGTT	CAGCTTCTTTGGGACACCTG
	TNF α	CATCAGTTCTATGGCCAGAC	GGAGTAGACAAGGTACAACCC
	CXCL-2	CCAACCACCAGGCTACAGG	GCGTCACACTCAAGCTCTG
	IL-1 β	TGCCACCTTTTGACAGTGATG	ATGTGCTGCTGCGAGATTTG
	IL-6	AAAACAATCTGAACTTCCA	CAGAAGACCAGAGGAAATTT
	MMP10	CCCAGCTAACTTCCACCTTTC	AATTCAGGCTCGGGATTCCAA
	MMP7	GAACACTCTAGGTCATGCCT	AATCTGTGCCTGCAATGTGC
ChIP primer	IKBK ChIP	ACTAATAGTCTGGGCGTGGT	TAGTAGAAACGGGTCTCAC

ChIP, chromatin immunoprecipitation; qRT-PCR, quantitative real-time polymerase chain reaction.

Table S3 The information of antibodies

Antibodies	Source	Identifier	Dilution	Origin
p-I κ B α (Ser32/36)	Cell Signaling Technology	9246s	1:1,000	Danvers, USA
I κ B α	Cell Signaling Technology	9242s	1:1,000	Danvers, USA
p-STAT3 (Tyr705)	Cell Signaling Technology	9145s	1:1,000	Danvers, USA
STAT3	Cell Signaling Technology	4904s	1:1,000	Danvers, USA
β -actin	TransGen Biotech	HC201	1:1,000	Beijing, China
Flag M2	Sigma	F1804	1:1,000 (WB), 1:200 (RIP)	St. Louis, USA
Mouse IgG	Proteintech	B900620	10 μ g (RIP)	Rosemont, USA
Anti-Rabbit IgG	LABLEAD	S0101	1:2,000	Beijing, China
Anti-Mouse IgG	LABLEAD	S0100	1:2,000	Beijing, China