

Supplementary materials

Table S1. The information of primary antibodies used in the experiments

Primary antibody	Manufacture	Cat #	Dilution
Nlrp3	Cell Signaling Technology	15101S	1:1000
Phospho-NFκB-p65 (ser536)	Cell Signaling Technology	13346S	1:1000
NFκB p-65	Santa Cruz Biotechnology	sc-8008	1:200
Phospho-TYK 2 (Tyr-1054/1055)	Cell Signaling Technology	9321S	1:500
TNF-α	Cell Signaling Technology	3707	1:500
PANX-1	Cell Signaling Technology	91137S	1:1000
Cox-2	Cell Signaling Technology	12282	1:1000
β-actin	Santa Cruz Biotechnology	sc-47778	1:200
GAPDH	Santa Cruz Biotechnology	sc-32233	1:200
Phospho-STAT3(Tyr-705)	Santa Cruz Biotechnology	sc-8059	1:200
STAT3	Santa Cruz Biotechnology	sc-8019	1:200
Pro-Caspase1	Santa Cruz Biotechnology	sc-392736	1:200
IL-1β	Abcam	ab216995	1:500
β-Actin	Abcam	ab8227	1:2000
GAPDH	Cell Signaling Technology	2118	1:1000
α-Tubulin	Santa Cruz Biotechnology	sc-8035	1:200
IL-6	Cell Signaling Technology	12153	1:1000
TYK2	Cell Signaling Technology	14193S	1:1000
Caspase-3	Cell Signaling Technology	9662s	1:200
Caspase-7	Cell Signaling Technology	12827	1:1000
Cleaved PARP	Cell Signaling Technology	9545s	1:250
PDX-1	Cell Signaling Technology	D59H3	1:1000
FOXO1	Cell Signaling Technology	2880S	1:1000
Phospho-FOXO1 (Ser256)	Cell Signaling Technology	9461S	1:1000
TXNIP	Cell Signaling Technology	14716S	1:1000

Table S2. The sequences of primers used for qRT-PCR.

<i>Rat-Ins1</i>	Forward	GGGAACGTGGTTTCTTCTACA
<i>Rat-Ins1</i>	Reverse	CAGTGCCAAGGTCTGAAGAT
<i>Rat-NEUROD1</i>	Forward	GAACACGAGGCAGACAAGAA
<i>Rat-NEUROD1</i>	Reverse	TCATCTTCATCCTCCTCCTCTC
<i>Rat-MafA</i>	Forward	GGTCATCCGACTGAAACAGAA
<i>Rat-MafA</i>	Reverse	CTTCTCGCTCTCCAGAATGTG
<i>Rat-Ins2</i>	Forward	GGGAGCGTGGATTCTTCTACA
<i>Rat-Ins2</i>	Reverse	AGTGCCAAGGTCTGAAGGT
<i>Rat-Slc2A2</i>	Forward	CATAGTCACACCAGCACATACG
<i>Rat-Slc2A2</i>	Reverse	ACAGACAGAGACCAGAGCATAG
<i>Rat-PDX1</i>	Forward	CCCTTTCCCGTGGATGAAATC
<i>Rat-PDX1</i>	Reverse	GCTGTACGGGTCCTCTTATTCT
<i>Rat-FOXO1</i>	Forward	TCTACGAGTGGATGGTGAAGAG
<i>Rat-FOXO1</i>	Reverse	GGACAGATTGTGGCGAATTGA
<i>Rat-Tubulin</i>	Forward	TGACCCTCGCCATGGTAAATA
<i>Rat-Tubulin</i>	Reverse	GATGGTACGCTTGGTCTTGATG
<i>Human-IL-6</i>	Forward	GGAGACTTGCCTGGTGAAA
<i>Human-IL-6</i>	Reverse	CTGGCTTGTTCTCACTACTC
<i>Human-COX-2</i>	Forward	TACTGGAAGCCAAGCACTTT
<i>Human-COX-2</i>	Reverse	GGACAGCCCTTCACGTTATT
<i>Human-TNF-α</i>	Forward	CCAGGGACCTCTCTCTAATCA
<i>Human-TNF-α</i>	Reverse	TCAGCTTGAGGGTTTGCTAC
<i>Human-Pannexin-1 (PANX-1)</i>	Forward	GTGTGCAGCATCAAATCAGG
<i>Human-Pannexin-1 (PANX-1)</i>	Reverse	GACACTGAGCAACTGGAAGA
<i>Human-ADAR1</i>	Forward	GTCATCAATGGCCGAGAGTT
<i>Human-ADAR1</i>	Reverse	CTTGGCTTTGGCTTCCTCTA
<i>Human-Nlrp3</i>	Forward	GAAGAGGAGTGGATGGGTTTAC
<i>Human-Nlrp3</i>	Reverse	TCTGCTTCTCACGTACTTTCTG
<i>Human-IL-1β</i>	Forward	CCTTAGGGTAGTGCTAAGAGGA
<i>Human-IL-1β</i>	Reverse	AAGTGAGTAGGAGAGGTGAGAG
<i>Human-ACTIN</i>	Forward	GGCATCCTCACCCTGAAGTA
<i>Human-ACTIN</i>	Reverse	CACACGCAGCTCATTGTAGAAG
<i>Human-GAPDH</i>	Forward	CAGGAGGCATTGCTGATGAT
<i>Human-GAPDH</i>	Reverse	GAAGGCTGGGGCTCATTT