

Supplementary materials

Figure legends

Figure S1

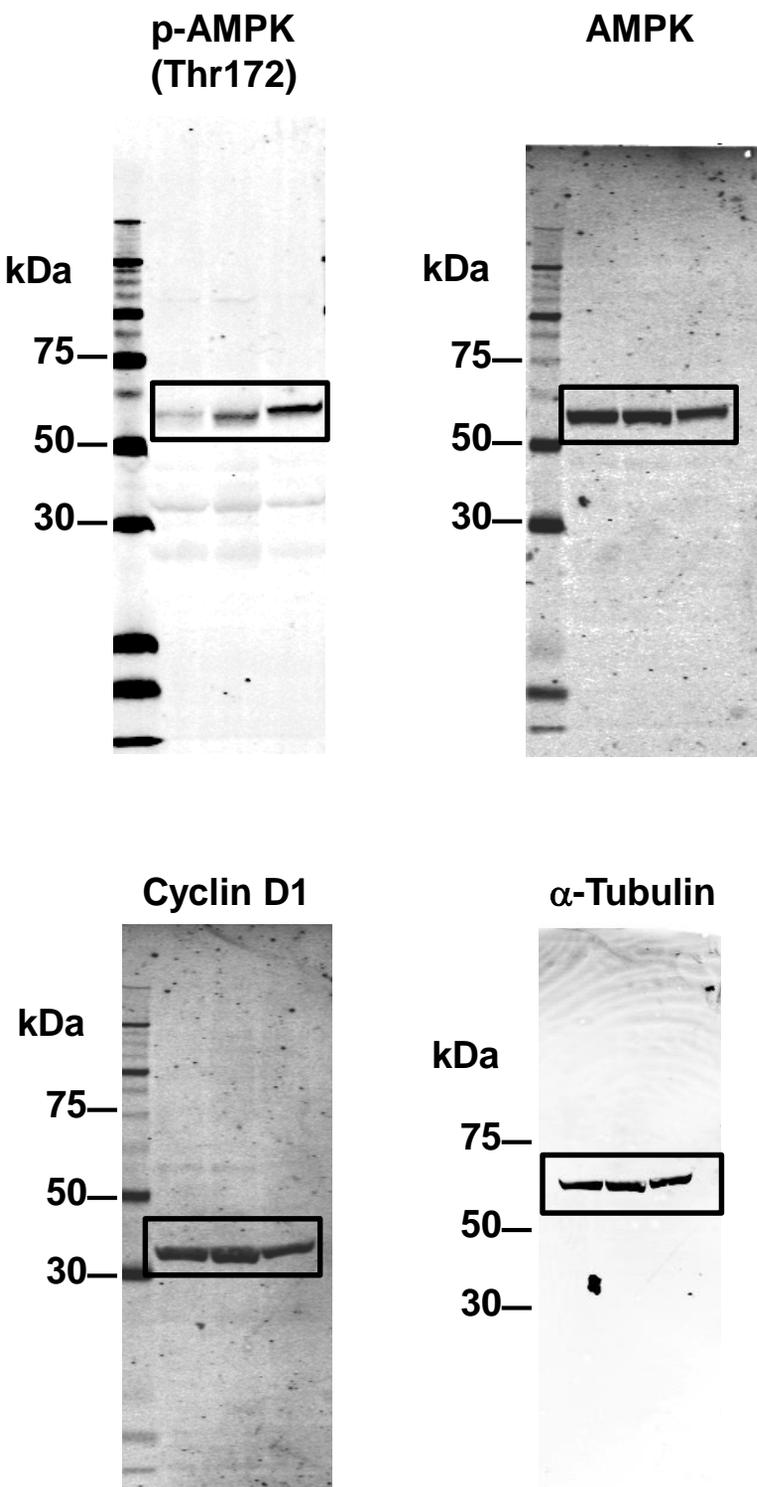
Western blotting of p-AMPK, AMPK, and cyclin D1 expressed in QGP-1 cells at 24 h after metformin treatment. The areas enclosed by the square were shown in the Figure 2.

Figure S2

Western blotting of p-AMPK, AMPK, cyclin D1 and cyclin E expressed in RIN-m cells at 24 h after metformin treatment. The areas enclosed by the square were shown in the Figure 4B.

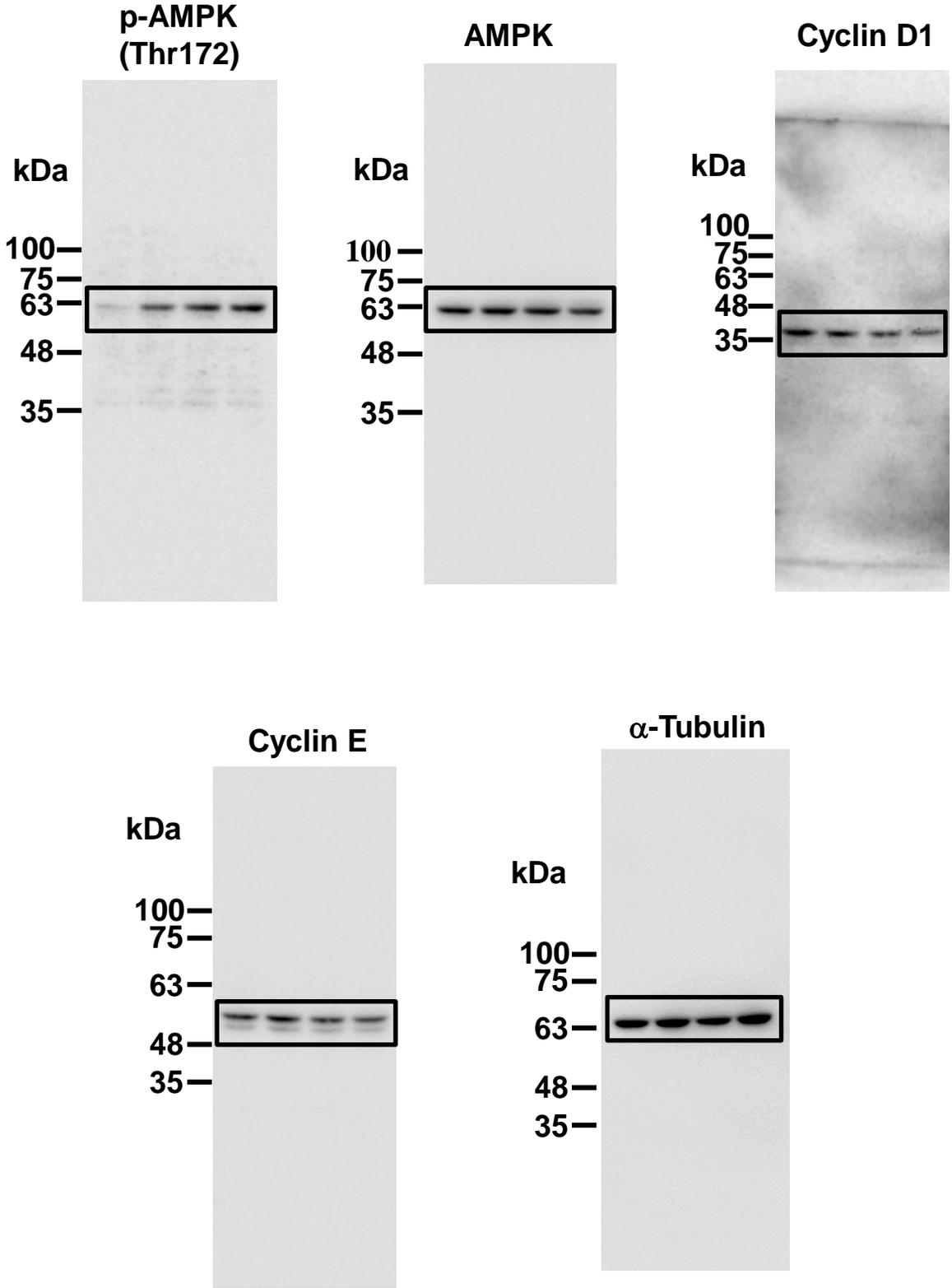
Supplementary Materials

Figure S1



Supplementary Materials

Figure S2



Supplementary Materials

Table S1 Quantification of band intensities of p-AMPK, AMPK and cyclin D1 in QGP-1 cells at 24 h after metformin treatment

Metformin (mM)	Intensity of the bands		
	0	1.0	2.0
p-AMPK (Thr172)	4027.8	7221.4	7329.9
AMPK	9551.8	9103.3	7851.5
Cyclin D1	8633.2	9999.4	6325.2
α -Tubulin	7417.5	7554.1	7360.6

Band intensities of western blotting of p-AMPK, AMPK, and cyclin D1 in QGP-1 cells were quantified by ImageJ.

Table S2 Relative band intensities of p-AMPK, AMPK and cyclin D1 in QGP-1 cells at 24 h after metformin treatment

Metformin (mM)	Relative intensity of the bands		
	0	1.0	2.0
p-AMPK (Thr172)	1.0	1.9	2.2
AMPK	1.0	0.9	0.8
Cyclin D1	1.0	1.1	0.7
α -Tubulin	1.0	1.0	1.0

Relative band intensities of western blotting of p-AMPK, AMPK, and cyclin D1 were calculated. p-AMPK was normalized by AMPK, and AMPK and cyclin D1 were normalized by α -tubulin. Relative intensity values were based on that from the non-treatment of metformin.

Supplementary Materials

Table S3 Quantification of band intensities of p-AMPK, AMPK, cyclin D1 and cyclin E in RIN-m cells at 24 h after metformin treatment

Metformin (mM)	Intensity of the bands			
	0	1.0	2.0	4.0
p-AMPK	2305.3	8648.9	11284.4	13690.2
AMPK	12395.8	13809.8	12456.0	9526.4
Cyclin D1	412311.0	335918.0	282850.0	265894.0
Cyclin E	12269.3	13119.8	9293.8	8761.7
α -tubulin	13725.5	14986.0	12548.2	15961.2

Band intensities of western blotting of p-AMPK, AMPK, cyclin D1 and cyclin E in QGP-1 cells were quantified by ImageJ.

Table S4 Relative band intensities of p-AMPK, AMPK, cyclin D1 and cyclin E in RIN-m cells at 24 h after metformin treatment

Metformin (mM)	Relative intensity of the bands			
	0	1.0	2.0	4.0
p-AMPK	1.0	3.4	4.9	7.7
AMPK	1.0	1.0	1.1	0.7
Cyclin D1	1.0	0.7	0.8	0.6
Cyclin E	1.0	1.0	0.8	0.6
α -tubulin	1.0	1.1	0.9	1.2

Relative band intensities of western blotting of p-AMPK, AMPK, cyclin D1 and cyclin E were calculated. p-AMPK was normalized by AMPK, and AMPK, cyclin D1 and cyclin E were normalized by α -tubulin. Relative intensity values were based on that from the non-treatment of metformin.