

1 **Supplementary Table S1. Antibodies and primer sequences used in this study**

2 Part A. Antibodies used for western blotting (WB), immunofluorescence (IF), and
3 immunohistochemistry (IHC).

Target	Application	Company	Catalog No.	Dilution
phospho-IRS-1 (Tyr612)	WB	Millipore (Sigma-Aldrich), Germany	09-432	1:3000
IRS-1	WB	Proteintech, China	17509-1-AP	1:10000
phospho-Akt (Ser473)	WB	Proteintech, China	66444-1-Ig	1:2000
Akt (total)	WB	Proteintech, China	10176-2-AP	1:3000
CTTN	WB; IF	ABclonal, China	A9518	WB 1:1000; IF 1:100
GLUT4	WB; IHC	Chengdu Zhengneng Biotechnology, China	347063	WB 1:3000; IHC 1:100
GAPDH	WB	Proteintech, China	HRP-60004	1:10000
Piezo1	IF	Proteintech, China	28511-1-AP	1:300
ZO-1	IHC	Wuhan Beiyinlai Biotechnology, China	RMAB60350	1:300

Target	Application	Company	Catalog No.	Dilution
HRP-conjugated anti-rabbit secondary antibody	WB	ImmunoWay Biotechnology, USA	RS0002	1:10000

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5 Part B. Primer sequences used for RT-qPCR.

Gene	Direction	Primer sequence (5'–3')	Product size (bp)
<i>Cttn</i>	Forward	GGAGCTGATGACTGGGAGAC	161
<i>Cttn</i>	Reverse	TCCTTGAGCGTCTGGTGTTC	
<i>Gapdh</i>	Forward	TGCTGTCCCTCTATGCTTCC	185
<i>Gapdh</i>	Reverse	GAAGGAATAGCCACGCTCAG	
<i>Irs1</i>	Forward	TGGACATCACAGCAGAATGAAGA	109
<i>Irs1</i>	Reverse	GACGTGAGGTCCTGGTTGTG	
<i>Akt2</i>	Forward	CGCCGGTGACAGACGATAC	100
<i>Akt2</i>	Reverse	CATGGTGGCAGCATTACAC	
<i>Slc2a4 (Glut4)</i>	Forward	GCTCTGACGTAAGGATGGGG	138
<i>Slc2a4 (Glut4)</i>	Reverse	TCAATCACCTTCTGTGGGGC	
<i>Piezol</i>	Forward	TTGGAGTGTAGCTGCCCAAG	202

Gene	Direction	Primer sequence (5'–3')	Product size (bp)
<i>Piezol</i>	Reverse	GTCTGTGACAGTCCGTTTGT	

6 **Abbreviations:** CTTN, cortactin; GLUT4, glucose transporter type 4; IRS-1, insulin
7 receptor substrate-1; RT-qPCR, reverse-transcription quantitative polymerase chain
8 reaction; WB, western blotting; IF, immunofluorescence; IHC,
9 immunohistochemistry.

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