CORRECTION

Correction: PID1 alters the antilipolytic action of insulin and increases lipolysis via inhibition of AKT/PKA pathway activation

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Fig 4 is incorrect. Please see the correct Fig 4 here.



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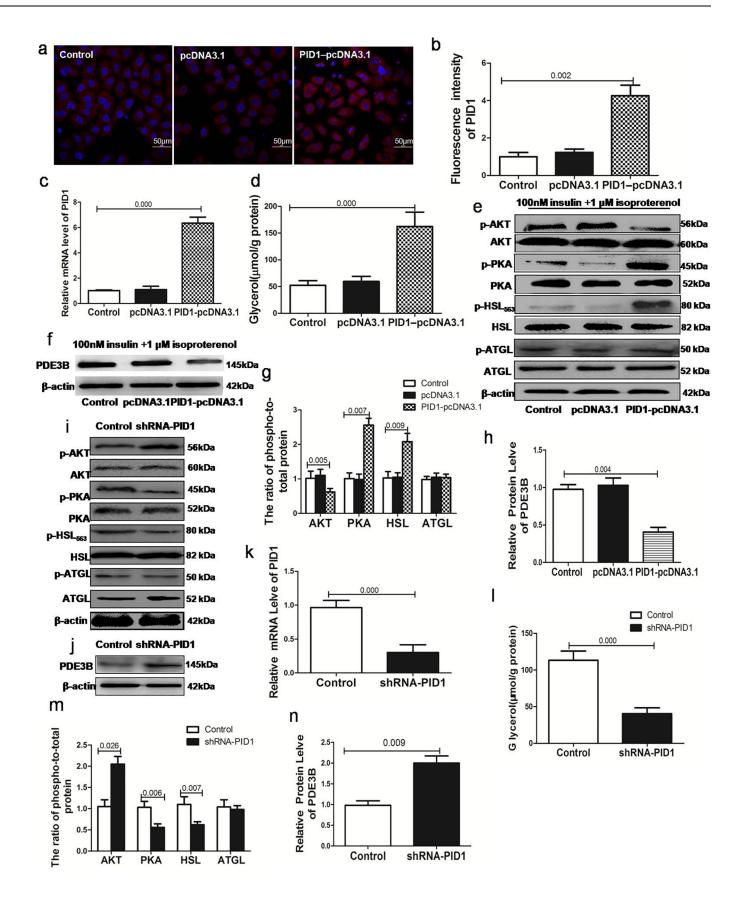


Fig 4. Effects of PID1 expression on lipolysis and the phosphorylation of AKT/PDE3B/PKA/HSL signaling molecules and ATGL. Preadipocytes were subjected to PID1knockout or upregulation and allowed to differentiate into 3T3-L1 adipocytes; these cells were treated with 1 μM isoproterenol and 100 nM insulin for 24 h(in triplicate). (a-b)Immunofluorescence analysis was performed to assess the expression of the PID1 gene in empty vector cells, PID1- overexpressing cells, and control cells.(c)RT-PCR analyses of the mRNA expression of PID1 in empty vector cells, PID1-overexpressing cells, and control cells.(c)RT-PCR analyses of the mRNA expression of AKT, PDE3B, PKA, HSL and ATGL in empty vector cells, PID1-overexpressing cells, and control cells. (d)Glycerol released into the medium after the upregulation of PID1.(e-f)Protein expression of AKT, PDE3B, PKA, HSL and ATGL in empty vector cells, PID1-overexpressing cells, and control cells. Phosphorylated AKT (p-AKT), phosphorylated PKA (p-PKA), phosphorylated HSL (p-HSL) and phosphorylated ATGL (p-ATGL) expression was normalized to their total protein level as a loading control.(g)The phosphorylated protein/total protein ratios for AKT, PKA, HSL, and ATGL in 3T3-L1 adipocytes after transfection with the PID1 overexpression plasmid. (h)The expression of PDE3B was determined by Western blot after the PID1 overexpression plasmid. (i-j)Protein expression of AKT, PDE3B, PKA, HSL and ATGL in Tansfection with PID1 shRNA. Phosphorylated AKT (p-AKT), phosphorylated PKA (p-PKA), phosphorylated PKA (p-PKA), phosphorylated HSL (p-HSL) and phosphorylated AKT (p-AKT), phosphorylated ATGL (p-ATGL) expression was normalized to their total protein expression plasmid. (h)The expression of PDE3B was determined by Western blot after transfection with PID1 shRNA. (I) Glycerol was released into the medium after knockdown of PID1. (m)Phosphorylated PTCR analyses of mRNA after transfection with PID1 shRNA. (I) Glycerol was released into the medium after knockdown of PID1. (m)Phosphorylated pr

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Reference

 Yin C, Liu Wh, Liu Y, Wang L, Xiao Y (2019) PID1 alters the antilipolytic action of insulin and increases lipolysis via inhibition of AKT/PKA pathway activation. PLoS ONE 14(4): e0214606. <u>https://doi.org/10.1371/journal.pone.0214606</u> PMID: 30990811