Insulin Regulates Adrenal Steroidogenesis by Stabilizing SF-1 Activity

Ann W. Kinyua[1], Khanh V. Doan[1,4], Dong Joo Yang[1,2], My Khanh Q. Huynh[1], Yun-Hee Choi[3], Dong Min Shin[2], and Ki Woo Kim[1,2*]

[1]Departments of Pharmacology and Global Medical Science, Wonju College of Medicine, Yonsei University, Wonju, 26426, Korea.

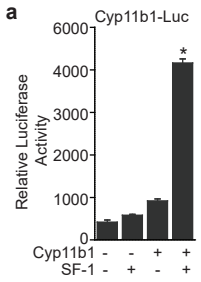
[2]Department of Oral Biology, BK21 PLUS, Yonsei University College of Dentistry, Seoul, 03722, Korea

[3]Anti-aging Research Institute of BIO-FD&C Co. Ltd., Incheon, 21990, Korea.

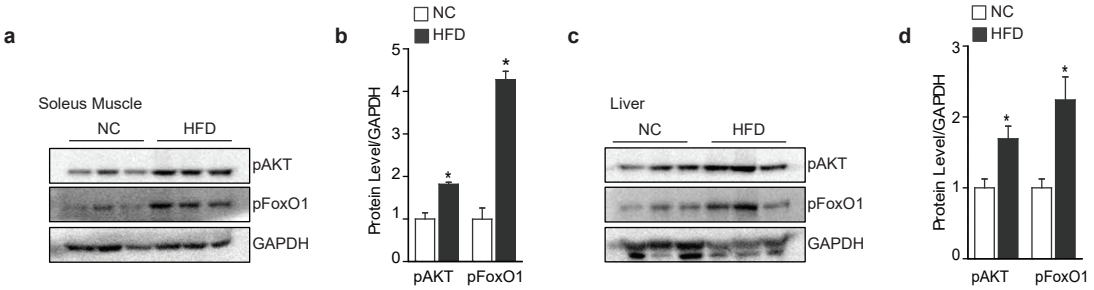
[4]Present address: Department of Pharmacology, Tan Tao University, School of Medicine, Tan Tao University Avenue Tan Duc E. City, Duc Hoa, Long An, 850000, Vietnam

***Correspondence and requests for reprints, materials should be addressed to:**

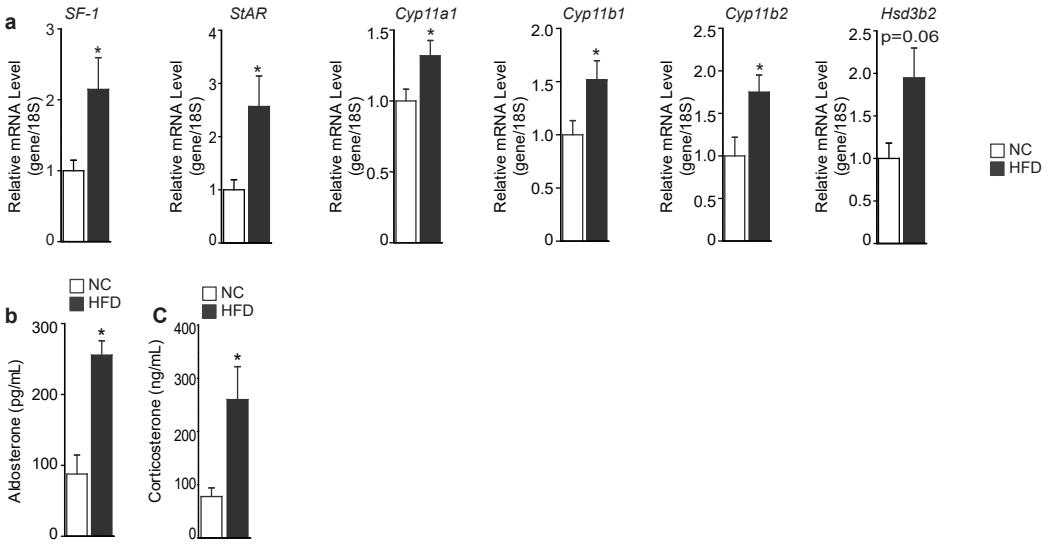
Ki Woo Kim (kiwoo@yonsei.ac.kr or iamkiwoo@gmail.com): +82-10-9899-8489 office



Supplementary Figure S1. Effect of SF-1 on Cyp11b1-luciferase activity (**a**).

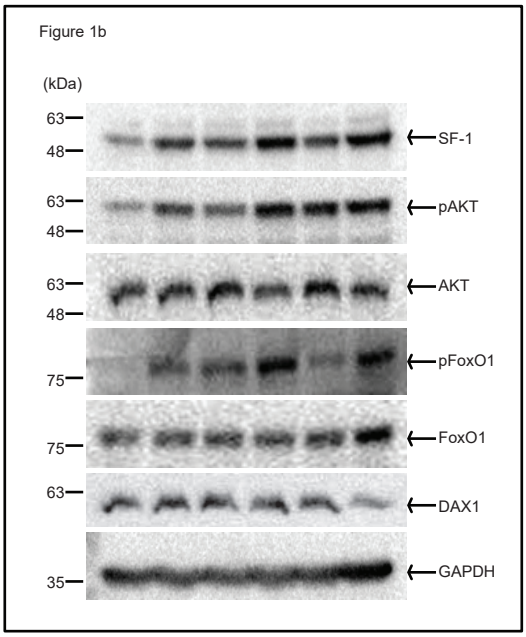


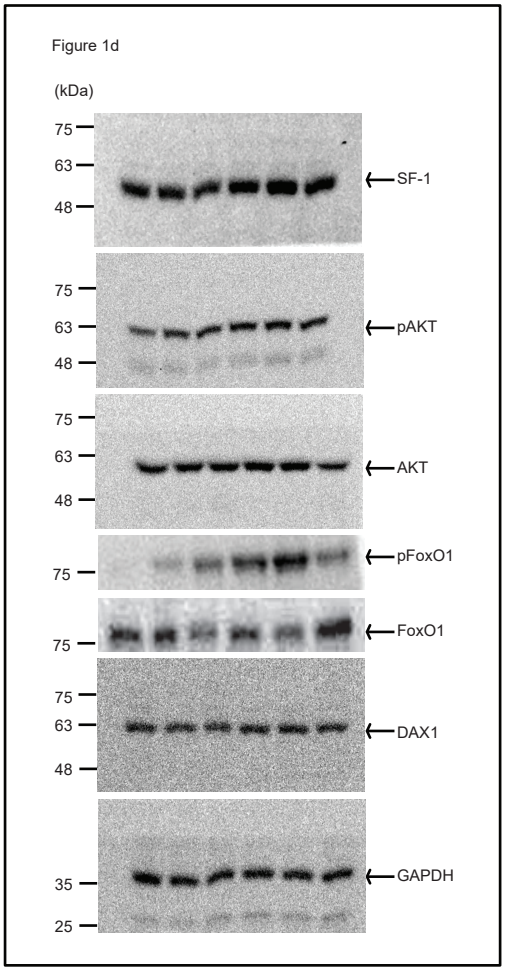
Supplementary Figure S2. Relative phosphorylation levels of AKT and FoxO1 in soleus muscle (**a** and **b**) and liver (**c** and **d**) from male mice. The values are mean ±SEM (*p<0.05, Student's test).

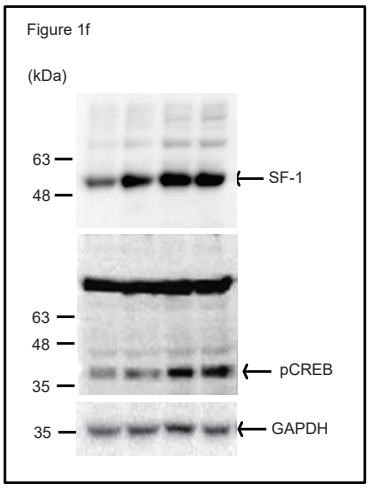


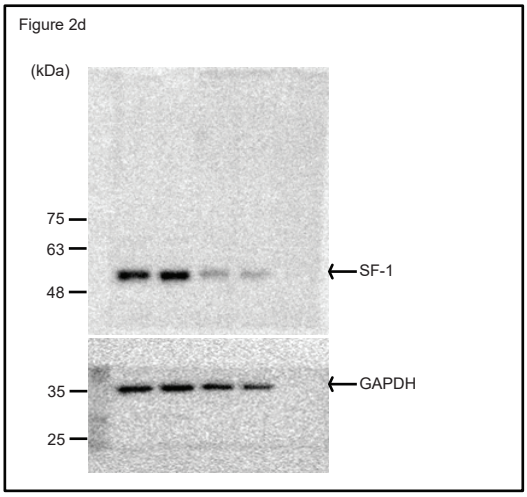
Supplementary Figure S3. mRNA expression of indicated steroidogenic genes from the adrenal gland (**a**). Plasma aldosterone (**b**) and corticosterone (**c**) levels. All samples from female mice. The values are mean ±SEM (*p<0.05, Student's test).

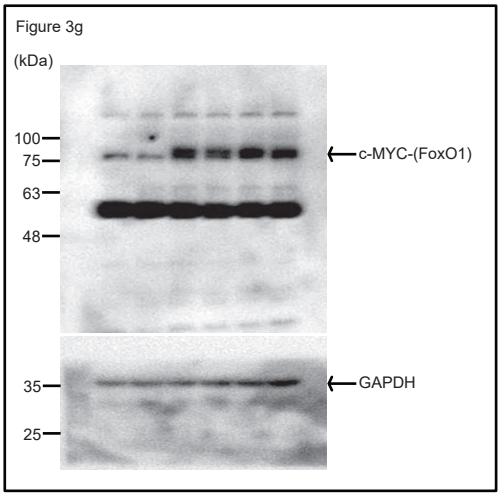
Full-gel blots











Full gel-blots