

hUMSCs Restore Ovarian Function in POI Mice by Regulating GSK3 β -mediated Mitochondrial Dynamic Imbalances in Theca Cells

Yanlian Xiong^{2, 3†}, Yaru Si^{1, 2†}, Rengui Quan⁵, Xingyu Huo^{2, 3}, Juntong Chen^{2, 3}, Jinyu Xu^{2, 3}, Zhonglin Jiang^{2, 3}, Feibo Xu^{2, 3}, Ranran Liu^{4*}, Qiang Fu^{1, 6*}.

†Yanlian Xiong and Yaru Si contributed equally to this work

*Correspondence:

Qiang Fu, Institute of Aging Medicine, College of Pharmacology, Binzhou Medical University, Yantai, China. E-mail: qiangfu11@fudan.edu.cn

Ranran Liu, Department of Medical Laboratory, Yantai Affiliated Hospital of Binzhou Medical University, Yantai, China. E-mail: ytfylrr@163.com

1 Institute of Aging Medicine, College of Pharmacology, Binzhou Medical University, Yantai 264003, China.

2 Xu Rongxiang Regenerative Medicine Research Center, Binzhou Medical University, Yantai 264003, China.

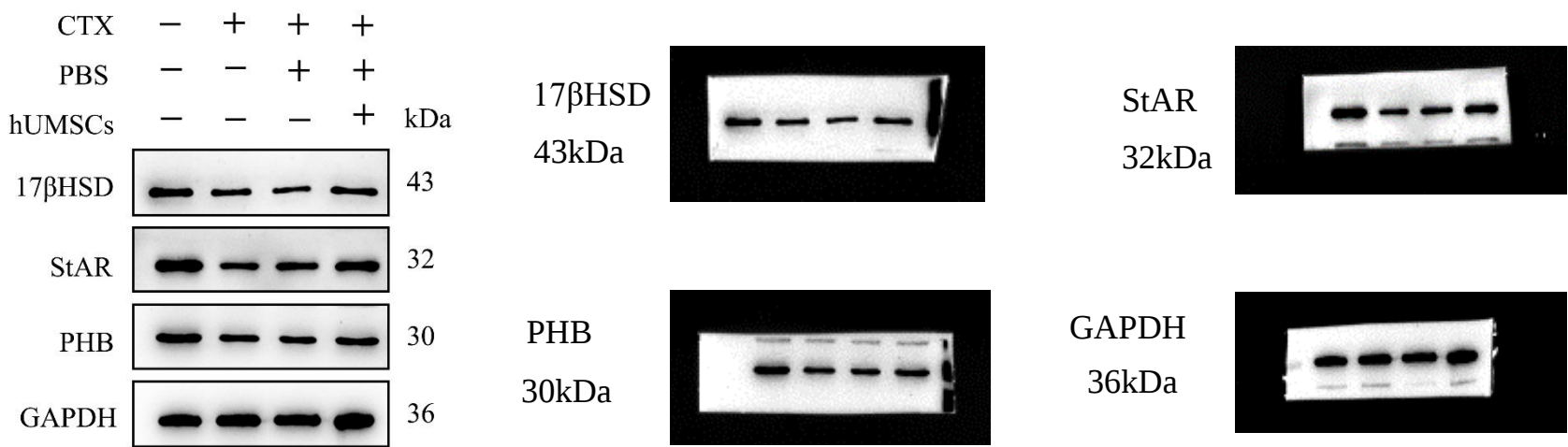
3 Department of Histology & Embryology, College of Basic Medicine, Binzhou Medical University, Yantai 264003, China.

4 Department of Medical Laboratory, Yantai Affiliated Hospital of Binzhou Medical University, Yantai 264003, China.

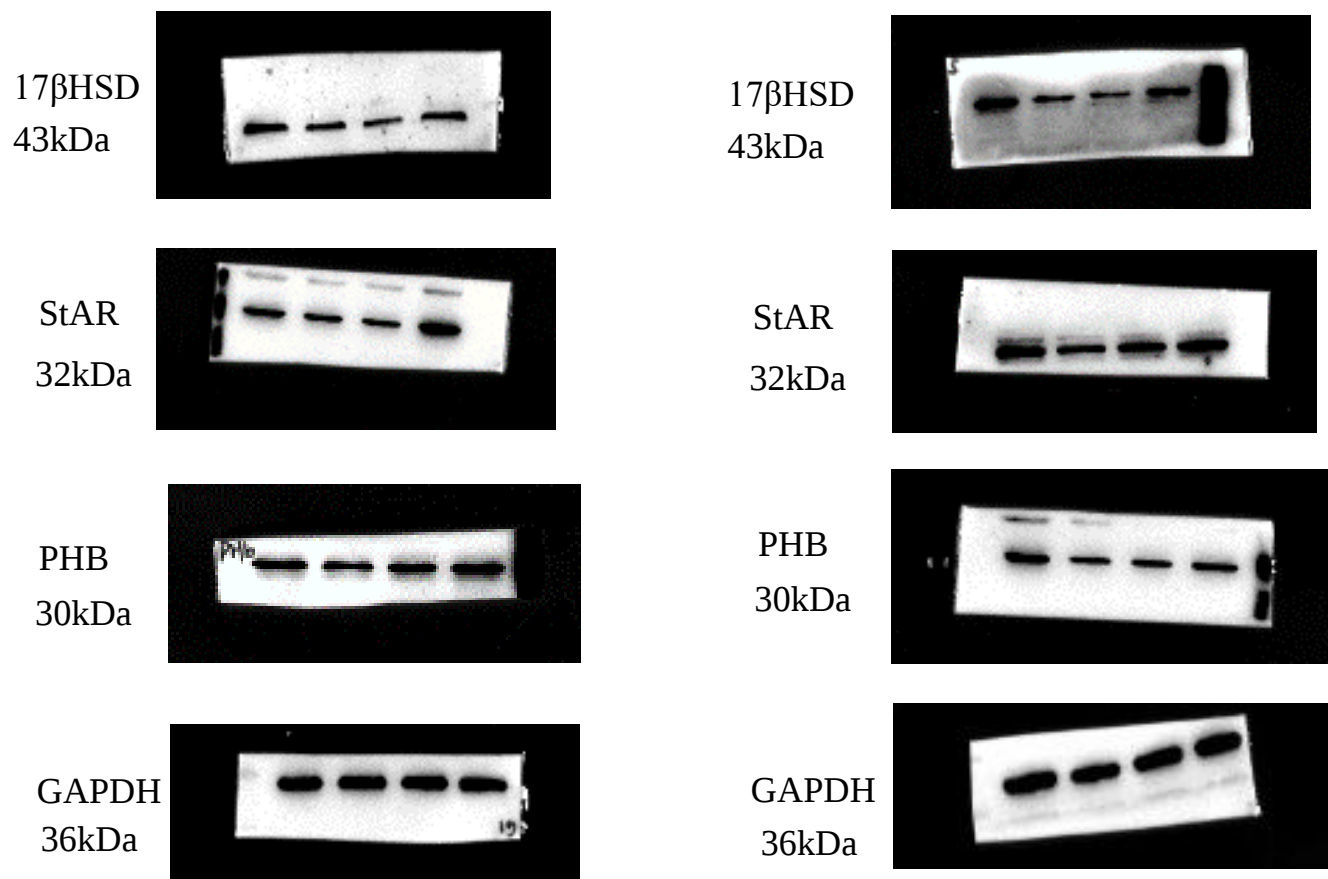
5 Department of Obstetrics, Yantai Affiliated Hospital of Binzhou Medical University, Yantai 264003, China.

6 Shandong Cellogene Medicine Science & Technology Co., LTD, Yantai 264003, China

Figure3E

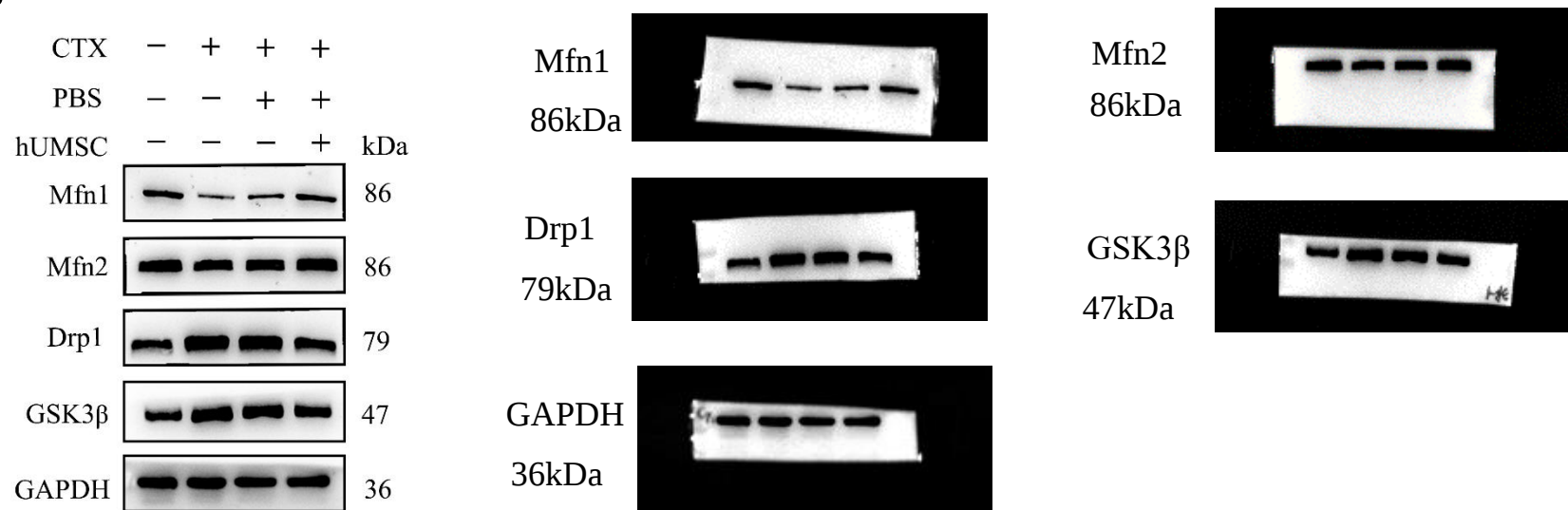


From left to right, this is the Control group, POI group, PBS group and hUMSCs group. The above images were all used in the paper.

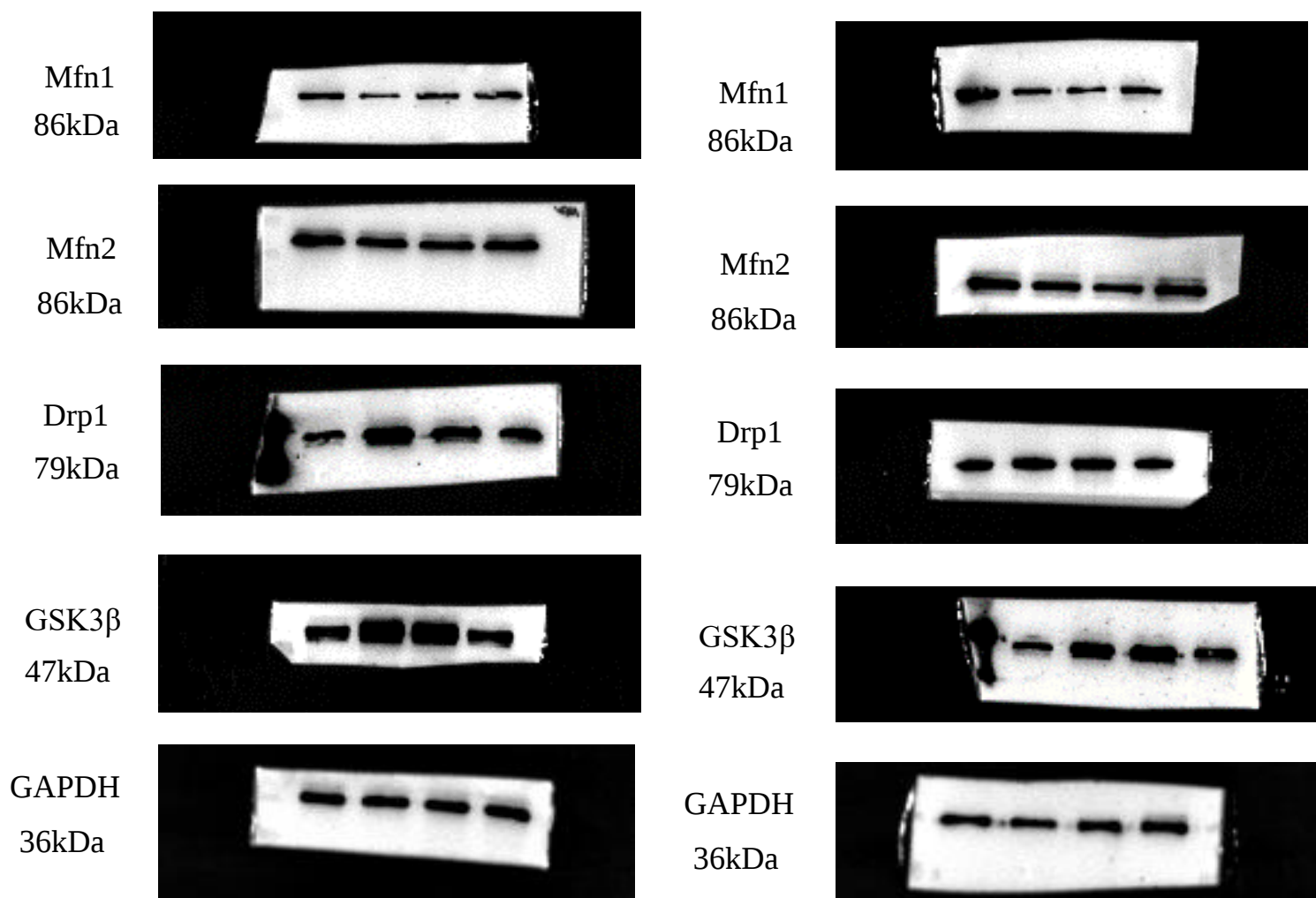


From left to right, this is the Control group, POI group, PBS group and hUMSCs group. All the above were used for statistical analysis.

Figure4C

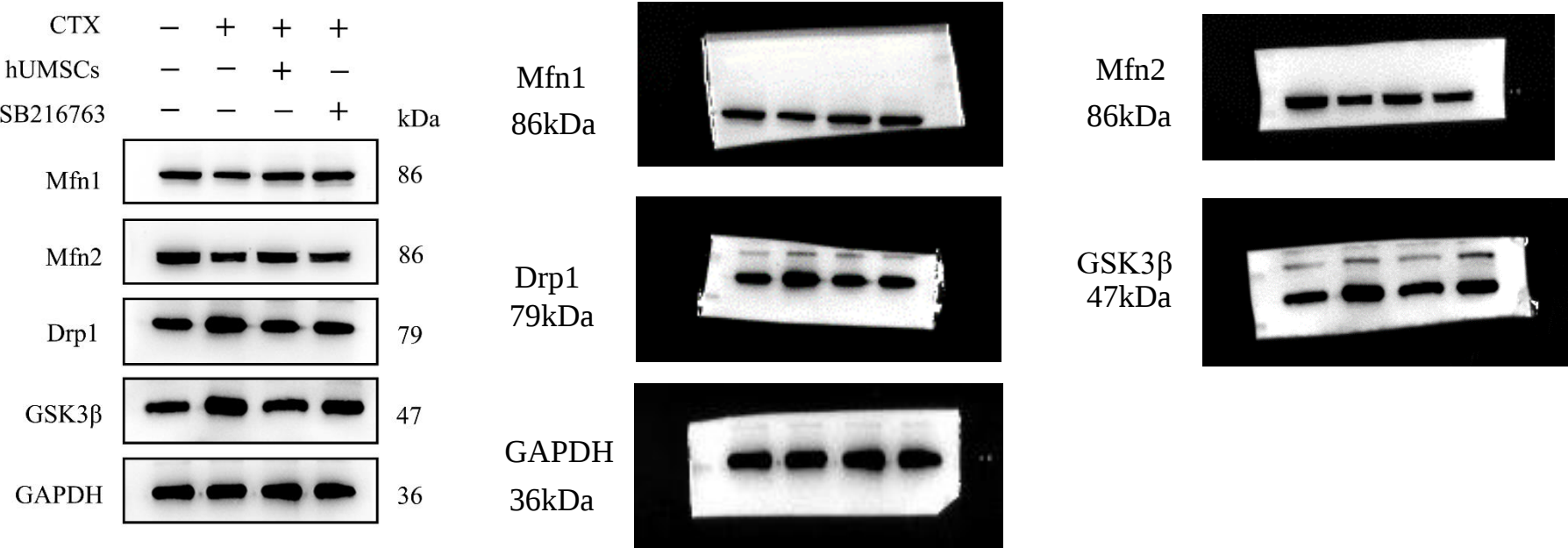


From left to right, this is the Control group, POI group, PBS group and hUMSCs group. The above images were all used in the paper.

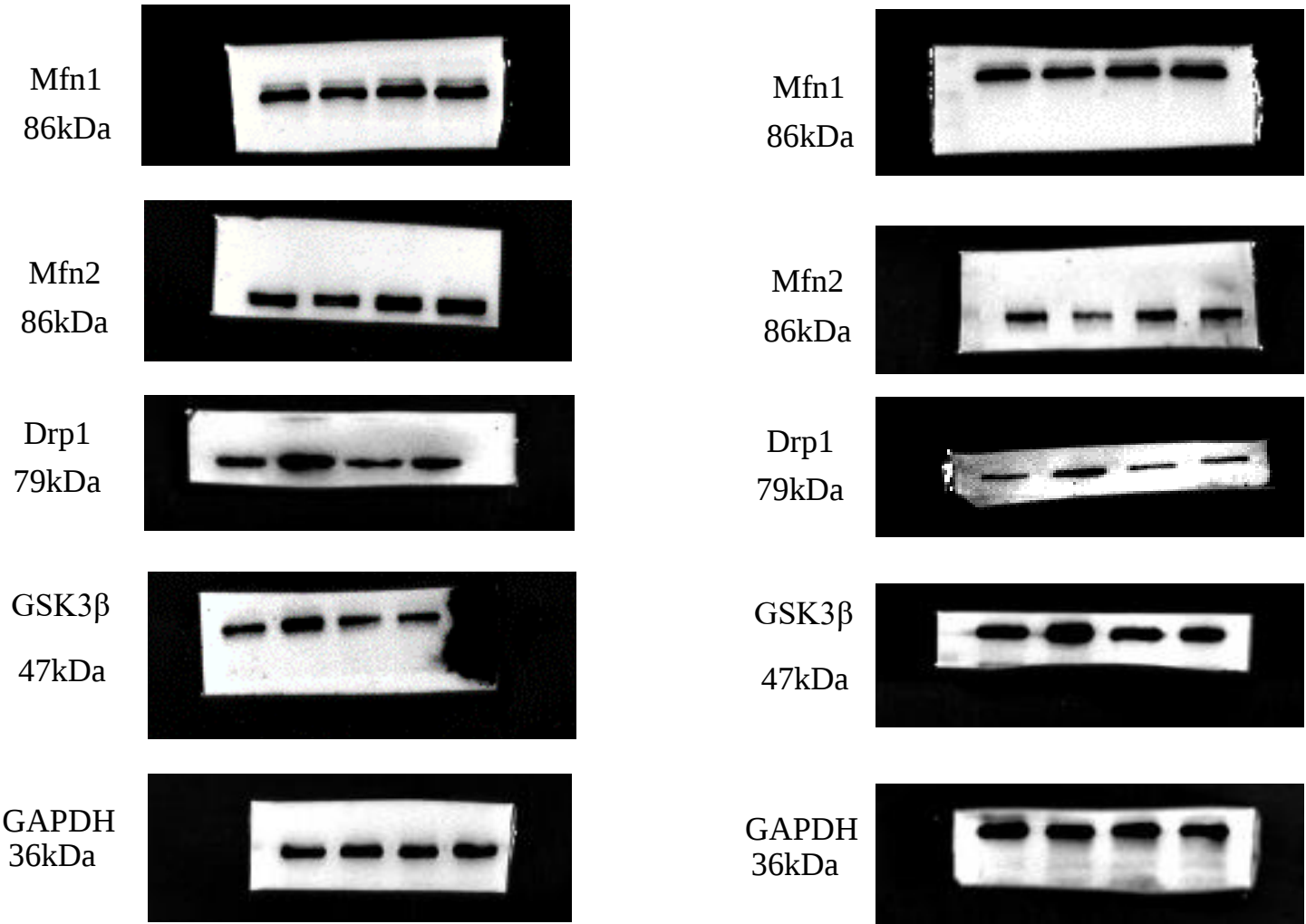


From left to right, this is the Control group, POI group, PBS group and hUMSCs group. All the above were used for statistical analysis.

Figure6A

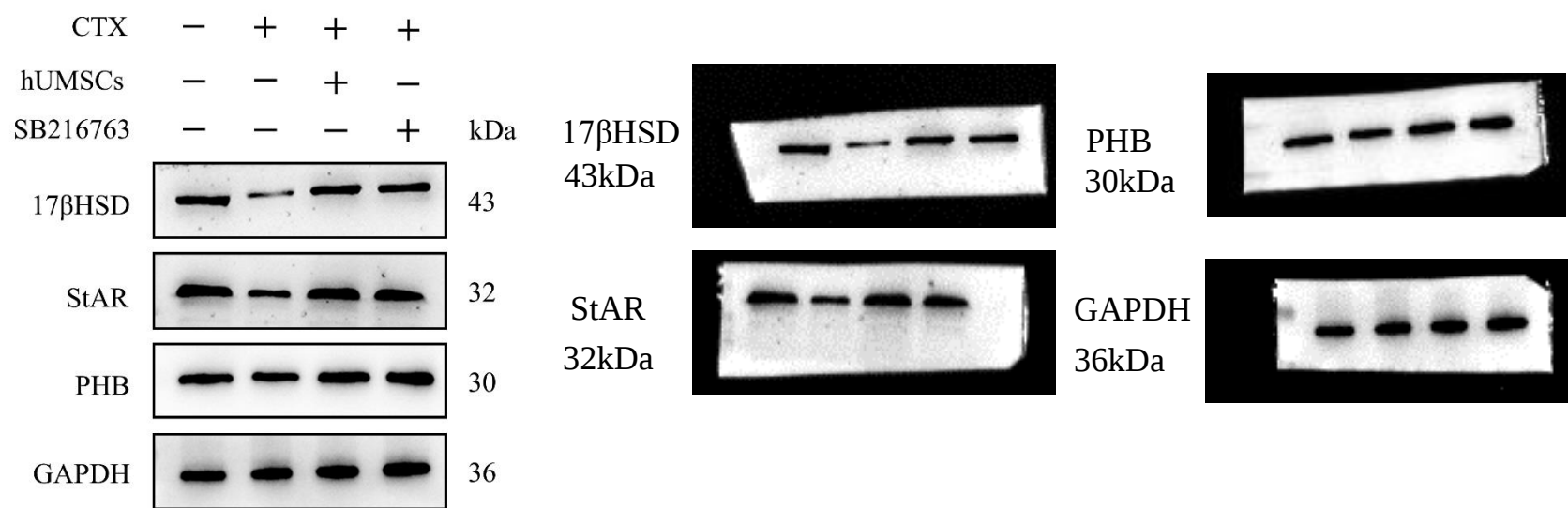


From left to right, this is the Control group, CTX group, hUMSCs group and SB216763 group. The above images were all used in the paper.

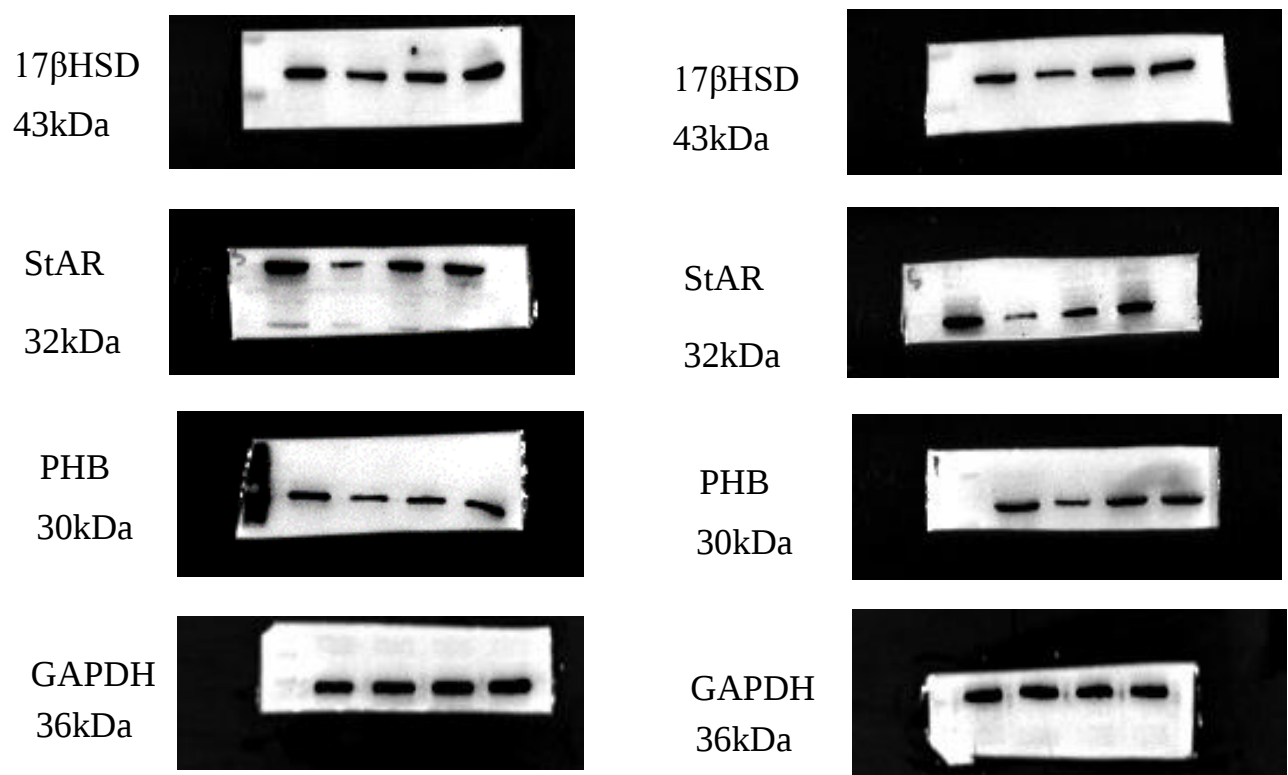


From left to right, this is the Control group, CTX group, hUMSCs group and SB216763 group. All the above were used for statistical analysis.

Figure7D



From left to right, this is the Control group, CTX group, hUMSCs group and SB216763 group. The above images were all used in the paper.



From left to right, this is the Control group, CTX group, hUMSCs group and SB216763 group. All the above were used for statistical analysis.