Dear editors:
The following are the original images of the gel images we used in the final Figure 2.
Thank you for your kind help.
Yours sincerely,
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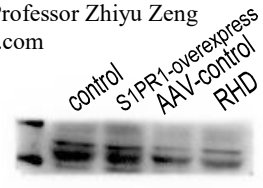
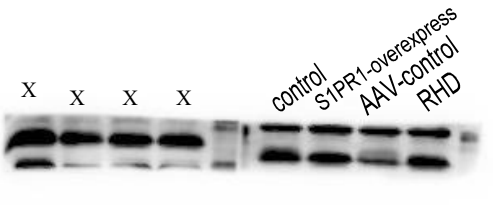
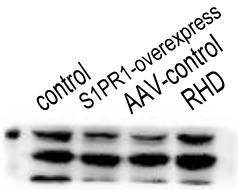
E-mail: doctorzyz@126.com



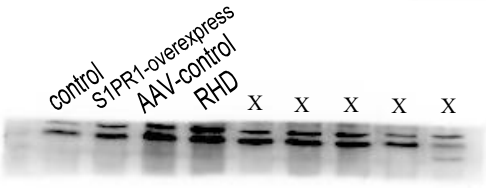
S1PR1, kDa 45



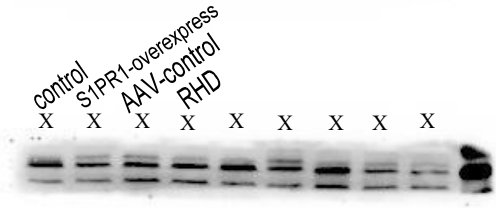
STAT3, kDa 88. “X” , lanes not included in the final figure.This image contains two PVDF membranes. The four lanes on the left were on another PVDF membrane also detected STAT3 which was one of our repeated experiments to detect STAT3 to determine the trend. When scanning, we scanned the two films together at that time. But the leftmost lane image is not good enough for readers to understand the trend, so the four lanes images on the left were only used for us to determine the trend of STAT3, and not used in final figure to present to readers.



tubulin, kDa 50

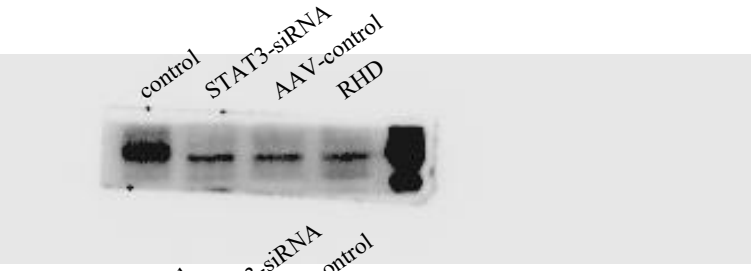


p-STAT3, kDa 86.“X” , lanes not included in the final figure. Because the molecular weights of STAT3 and p-STAT3 are too close, we must detect p-STAT3 separately. Lanes marked by “X” only helped us determine the trend by showing each sample’s information, there was no special layout to show readers the differences between groups.

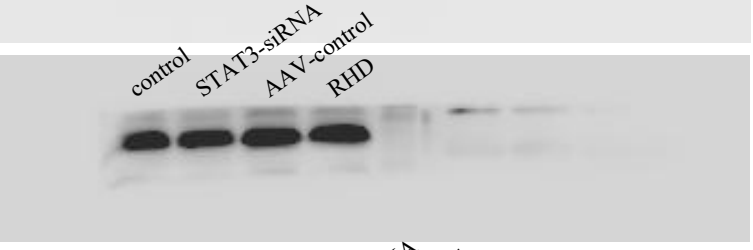


tubulin, kDa 50. “X” , lanes not included in the final figure. This is the image of tubulin for normalizing p-STAT3 when we detected p-STAT3 separately.

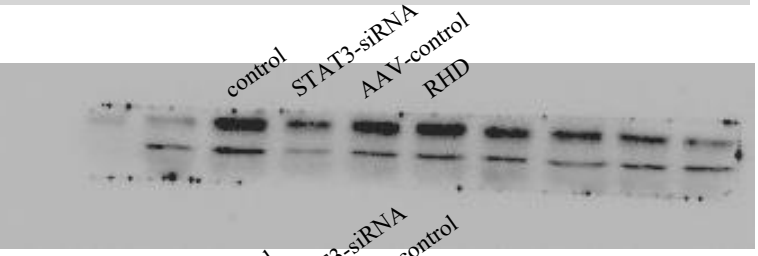
The following are the original images of the gel images we used in the final Figure 7.



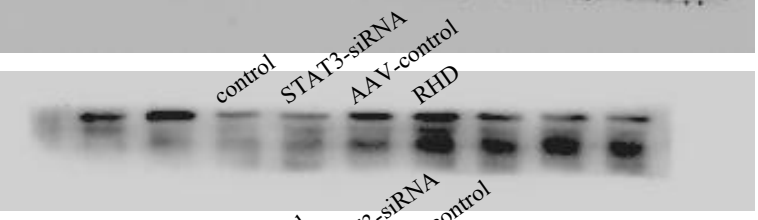
1. Group II S1PR1 original gel.



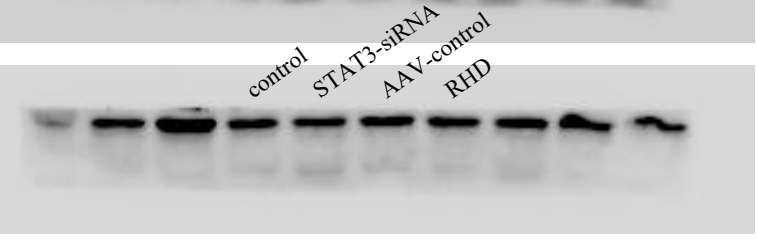
2. Group II Tubulin for S1PR1 normalization.



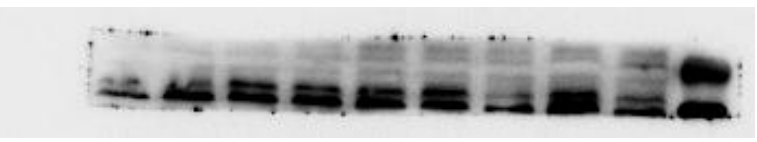
3. Group II STAT3 original gel. The marker is on the far right, developed. The cropped part is 4-7 squares from right to left.



4. Group II P-STAT3 original gel. The marker is on the far right, undeveloped. The cropped part is 4-7 squares from right to left.



5. Group II Tubulin original gel. The marker is on the far right, not included. The cropped part is 4-7 squares from right to left.



6. Group II STAT3 early experiment. The marker is on the far right, developed. This picture is only attached to reflect the development of the marker, this is not the picture used in the final figure.

Dear Editors:

The above is the original gels selected in the final Figure 7 which we have presented in our previous submission as well as the following explanation:

1. After summing up the experimental experience of WB, we found that the samples in the 3-8 cells are less affected by the transfer process, because the samples that are too close to the edge are sometimes not clear enough. So in this experiment, we focus on 4-7 cells. In order not to waste other cells on the band, the other cells are the proteins of other samples, they can also normalize to tubulin to help us determine the trend.

2. The marker part in the tubulin original gel is not included, it is because the PVDF membrane didn′ t cover the position of the marker in the transfer step, or the protein that was too close to the edge was sometimes not clear enough.

3. Regarding the development of the marker in STAT3 original gel, we found that the marker will be developed when detecting STAT3. Therefore, we uploaded a band that detected STAT3 in our previous experiment. The rightmost marker in this band was also developed. However, please note that this band only helped us determine the trend by showing each sample′ s information, there was no special layout to show readers the differences between groups (The marker we used was PageRuler Prestained Protein Ladder, 10 to 180 kDa; 26617; Thermo Scientific).

Yours sincerely,

Zhiyu Zeng, Shenglin Xian