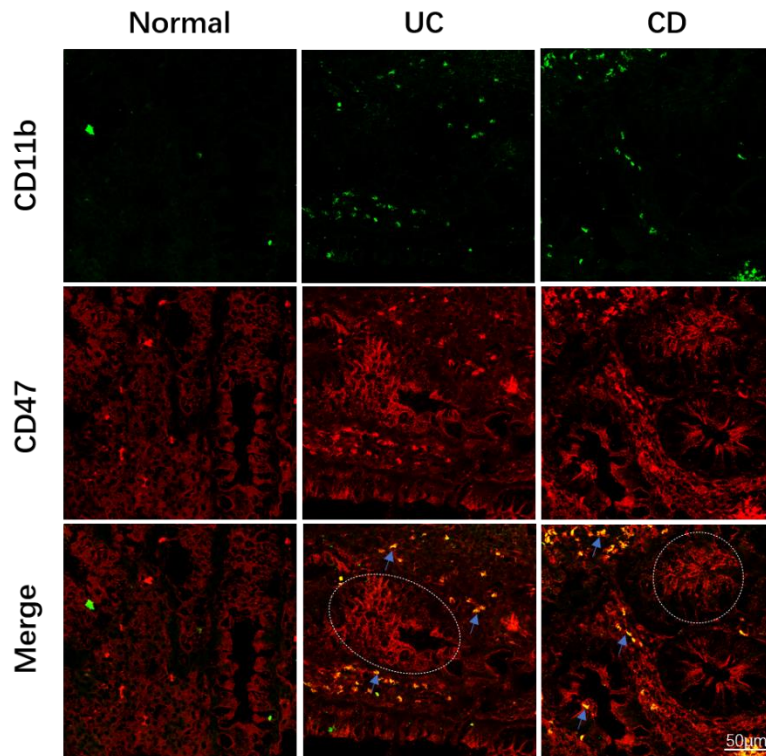


**CD47 is a negative regulator of intestinal epithelial cell self-renewal following DSS-induced
experimental colitis**

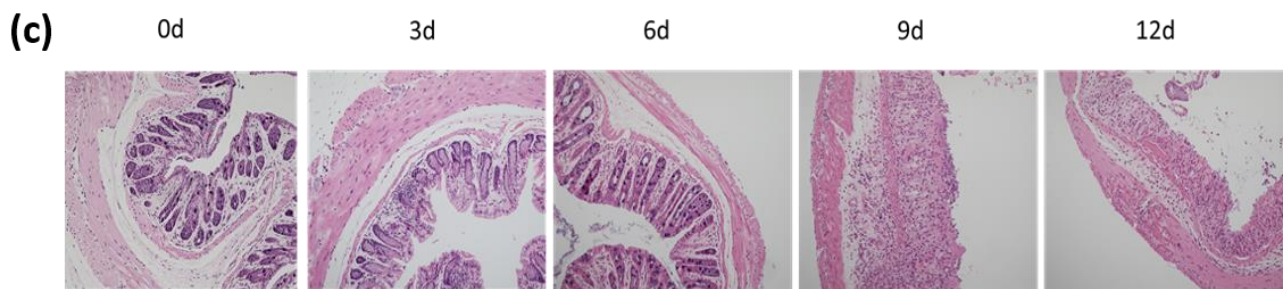
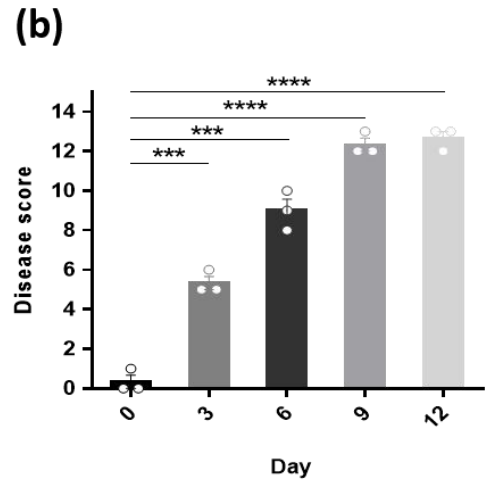
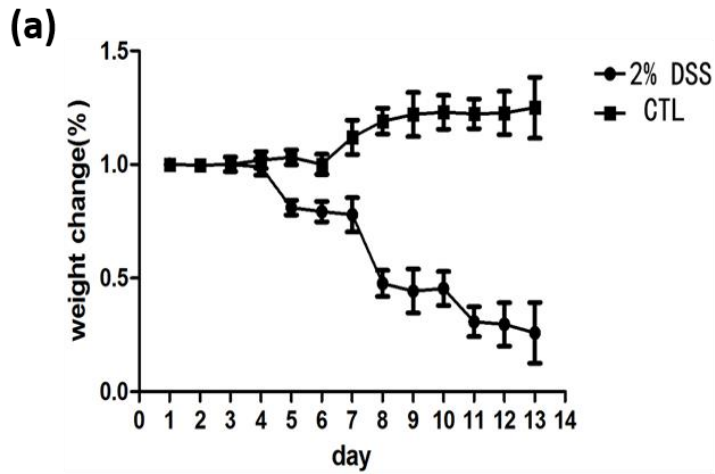
Yueqing He^{1*}, Xinlei Sun^{1*}, Weiwei Rong^{1*}, Rong Yang¹, Hongwei Liang¹, Ying Qi³, Limin Li^{1,2¶} and Ke
Zen^{1,2¶}

File list

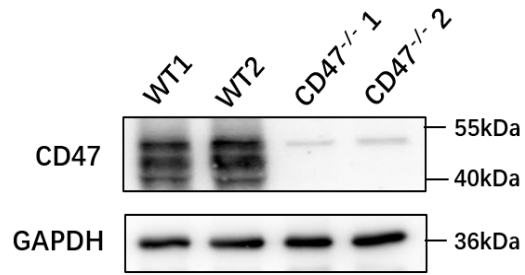
1. Supplementary Figure S1
2. Supplementary Figure S2
3. Supplementary Figure S3
4. Supplementary Figure S4
5. Supplementary Figure S5
6. Supplementary Figure S6 (raw gel/blots)



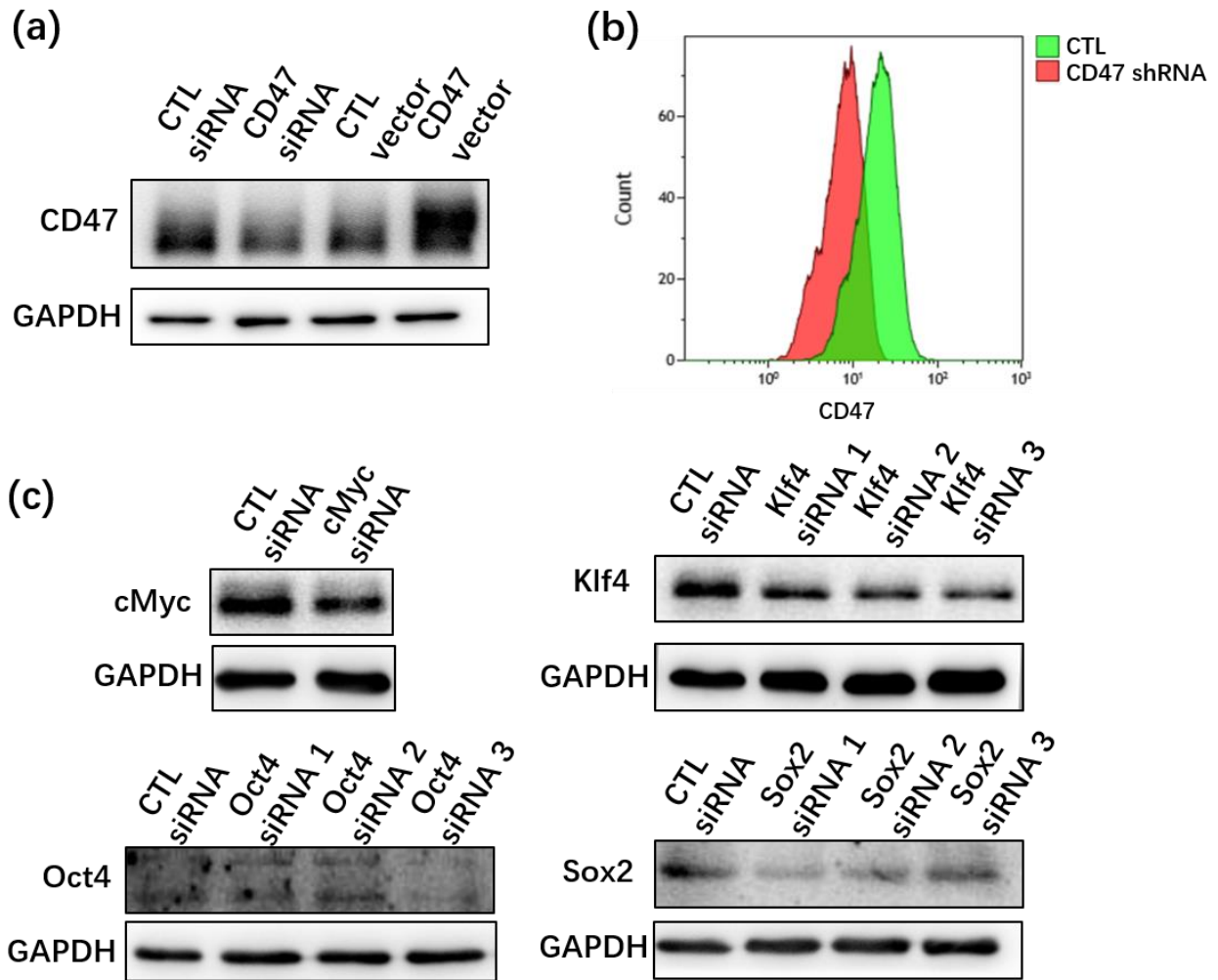
Supplementary Figure S1. Increased CD11b⁺ immune cell infiltration in UC and CD patients' intestine (n=5). Note that infiltration of CD47 positive immune cells (arrowheads) may increase the total CD47 level of tissue, but does not contribute to the increase of CD47 expression in colonic epithelium (white frame).



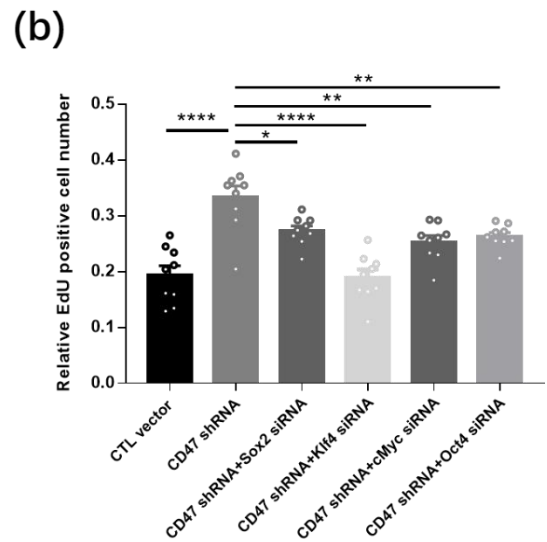
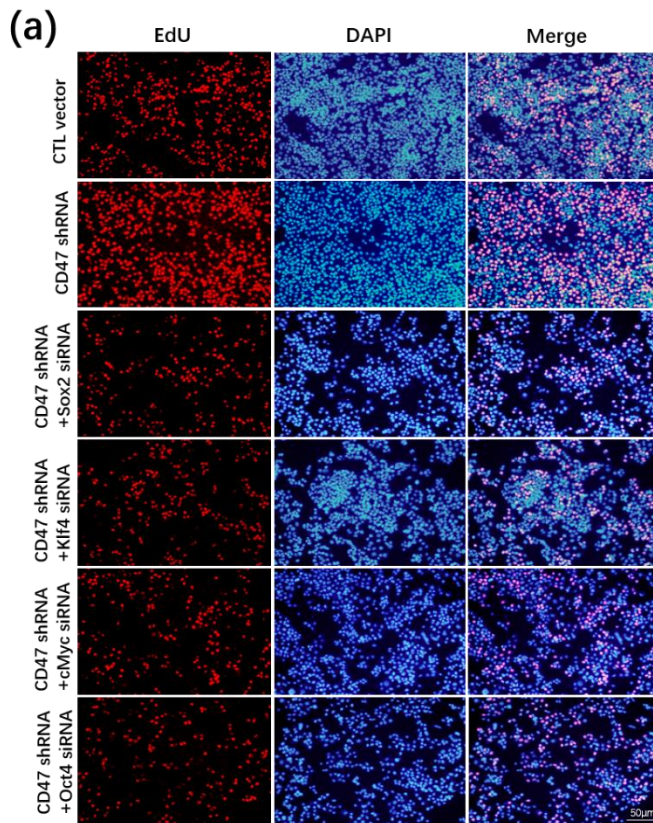
Supplementary Figure S2. The mice were treated with 2% DSS for 12 days followed by regular drinking water. (a) Body weight loss and (b) disease activity index (DAI) scores. (c) Histology of colon tissue (H&E staining). *** $P < 0.001$, **** $P < 0.0001$ versus 0 day.



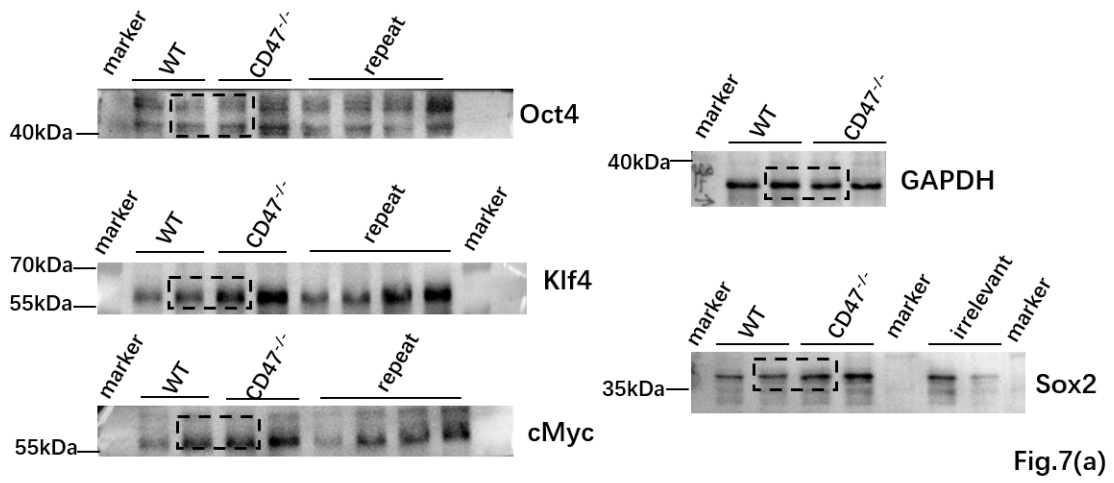
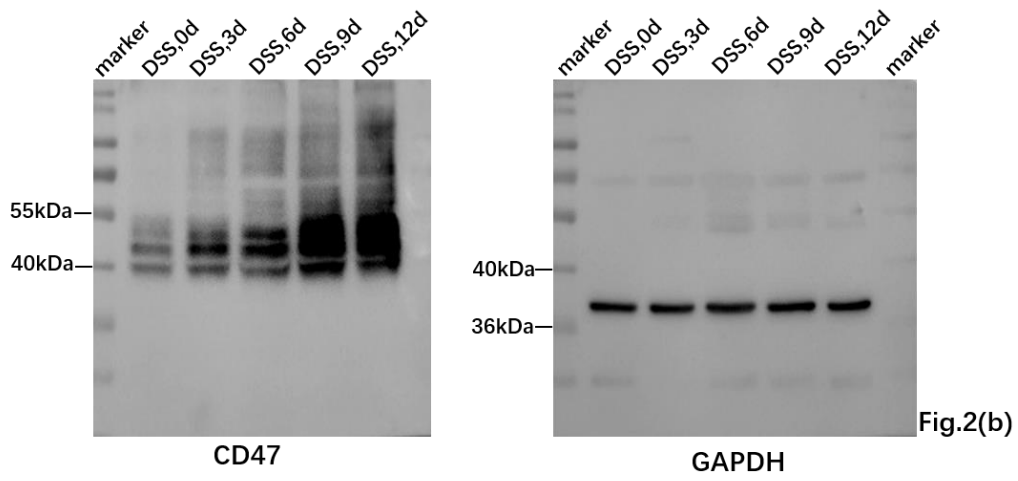
Supplementary Figure S3. Confirmation of CD47 knockout by Western blotting.



Supplementary Figure S4. Detection the efficiency of siRNA and shRNA oligonucleotides and expression plasmid. (a) Increase or decrease the level of CD47 expression in CT26 cells tested by Western Blot. (b) Knockdown of CD47 in HT29 cells by CD47 shRNA tested by Flow Cytometry. (c) Western blot analysis showed that cMyc siRNA, Oct4 siRNA3, Kif4 siRNA3 and Sox2 siRNA2 were efficient in inhibiting the expression of the respective genes in HT29 cells.



Supplementary Figure S5. Knocking down OSKM separately reverses the enhancement of cell proliferation capacity induced by CD47 knockdown. After CD47 knockdown in HT29 cells, each OSKM factor was silenced by transfection of specific siRNA, respectively. Cell proliferation was assessed by EdU assay. (a) Representative images of cell proliferation. (b) The analysis of EdU-positive cell number. * $P < 0.05$, ** $P < 0.01$, **** $P < 0.0001$ versus control or CD47 shRNA.



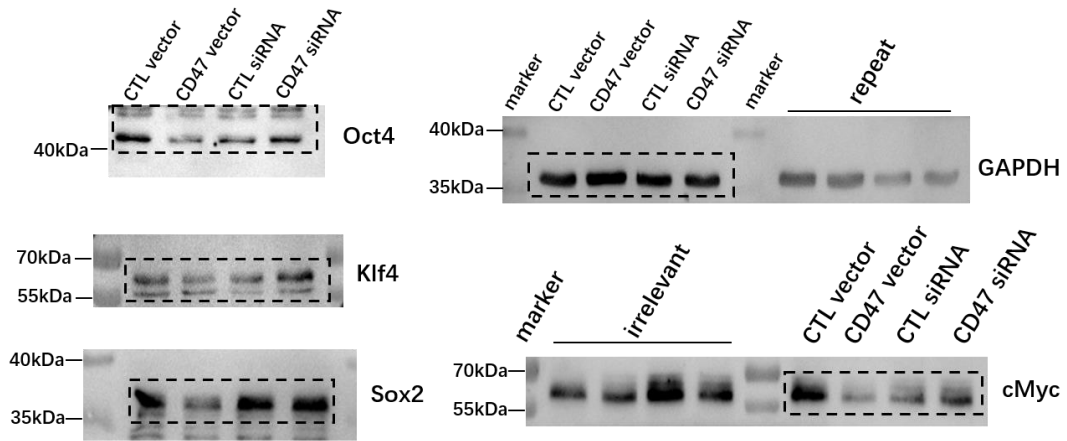


Fig.7(b)

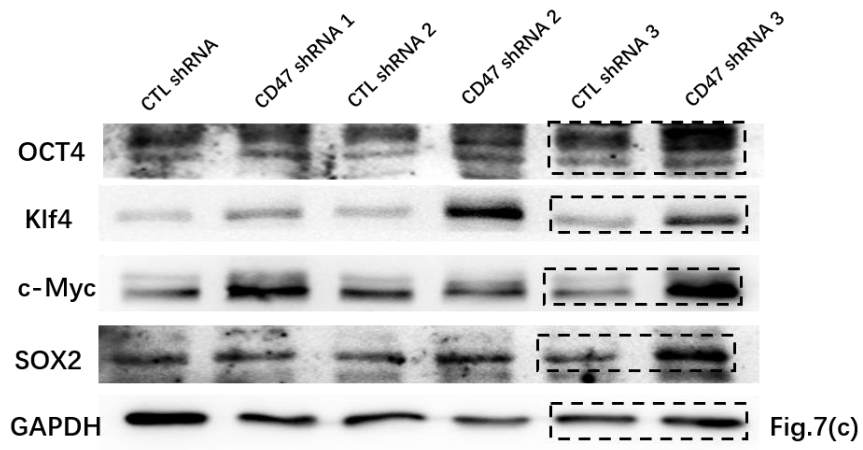


Fig.7(c)

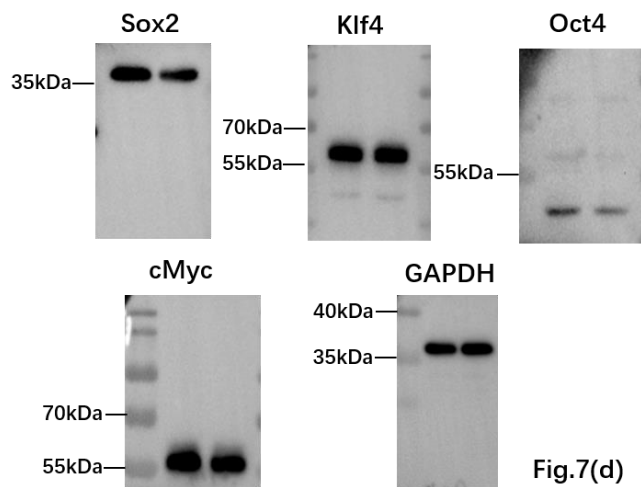
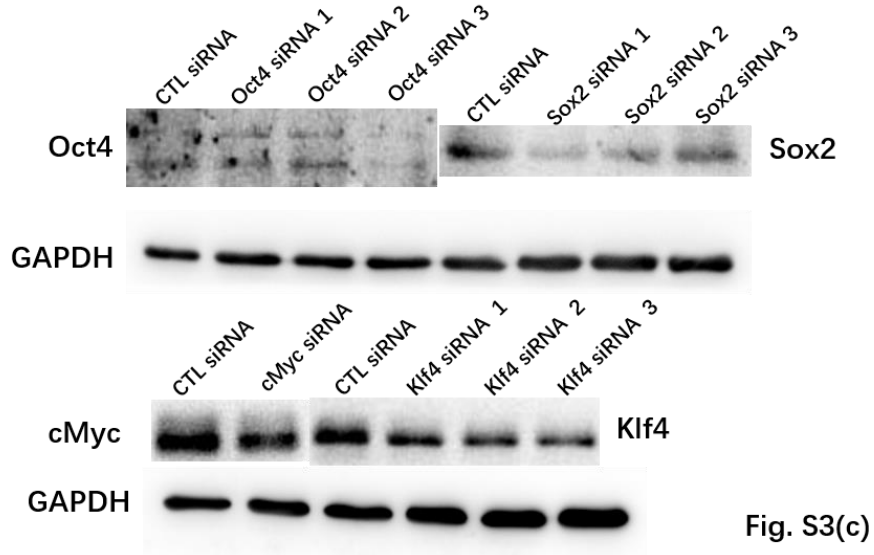
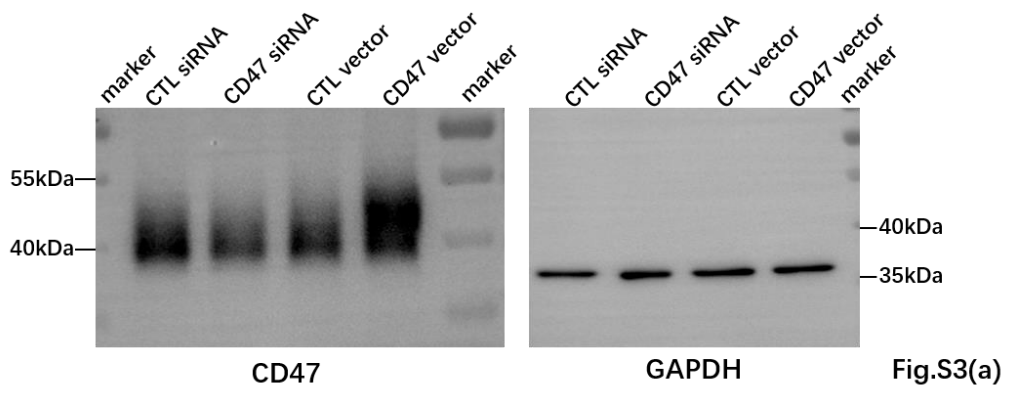
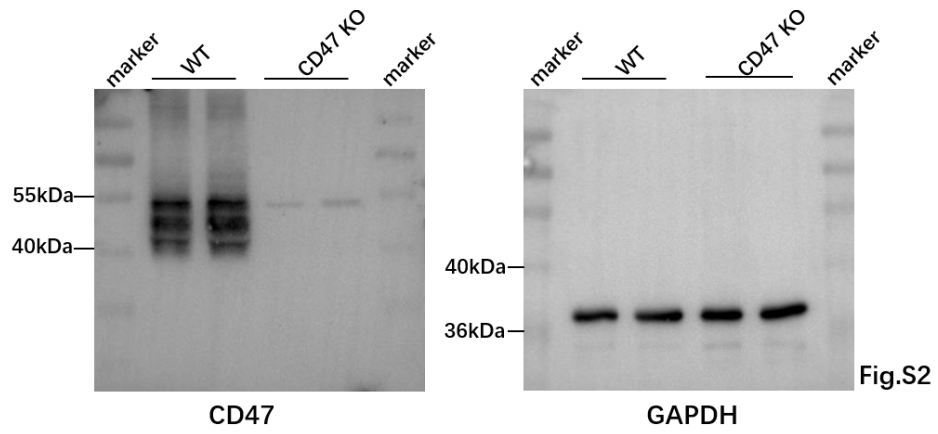


Fig.7(d)



Supplementary Figure S6. Raw gels and blots for all the figures.