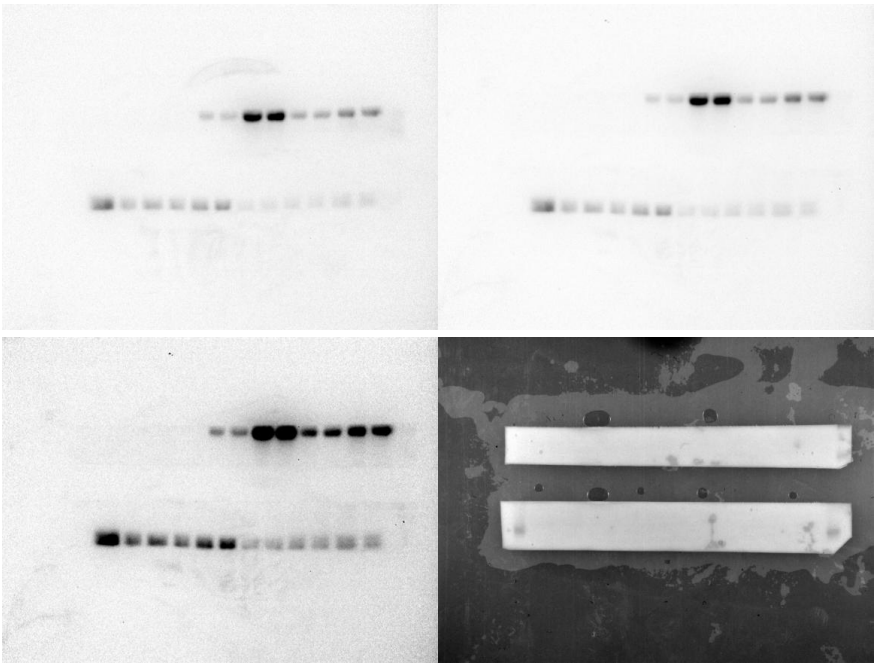
ASIC1α up-regulates MMP-2/9 expression to enhance mobility and proliferation of liver cancer cells via the PI3K/AKT/mTOR pathway

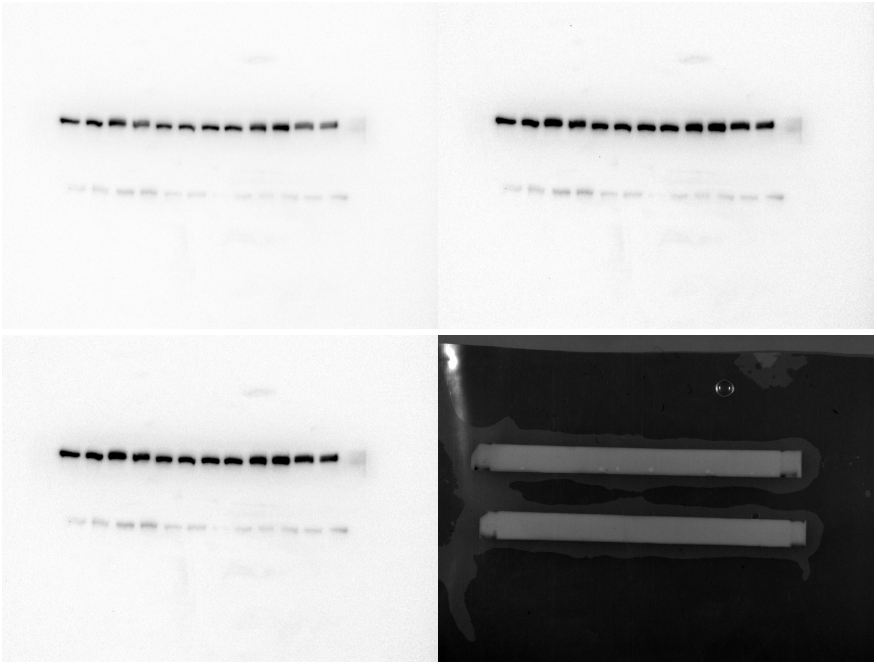
Supplementary Information file

Fig 1A1

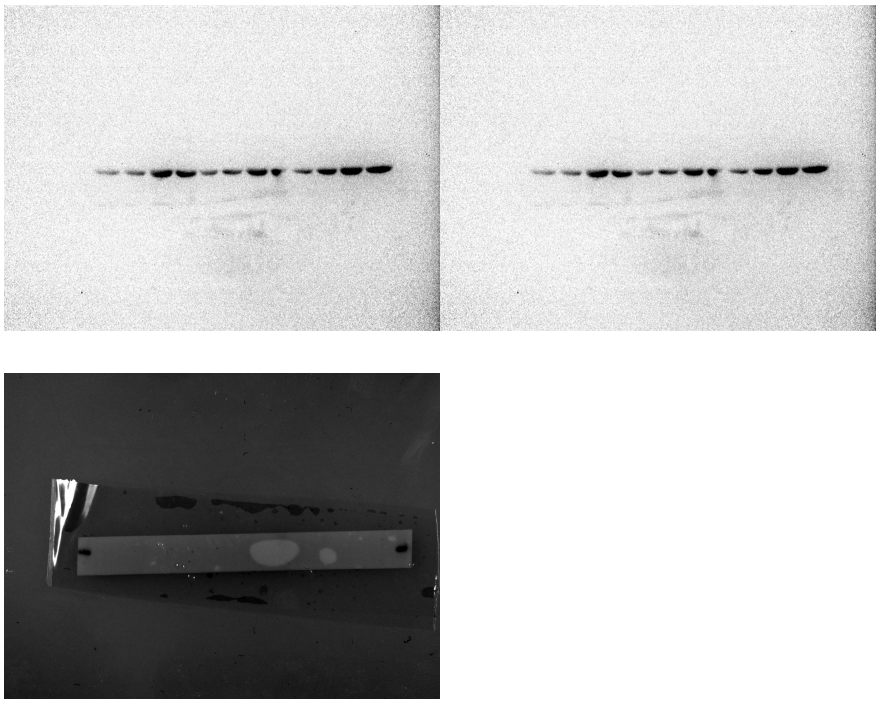
ASIC1α (HepG2+L-02)



β-actin (HepG2+L-02)



ASIC1α (SK-Hep1+L-02)



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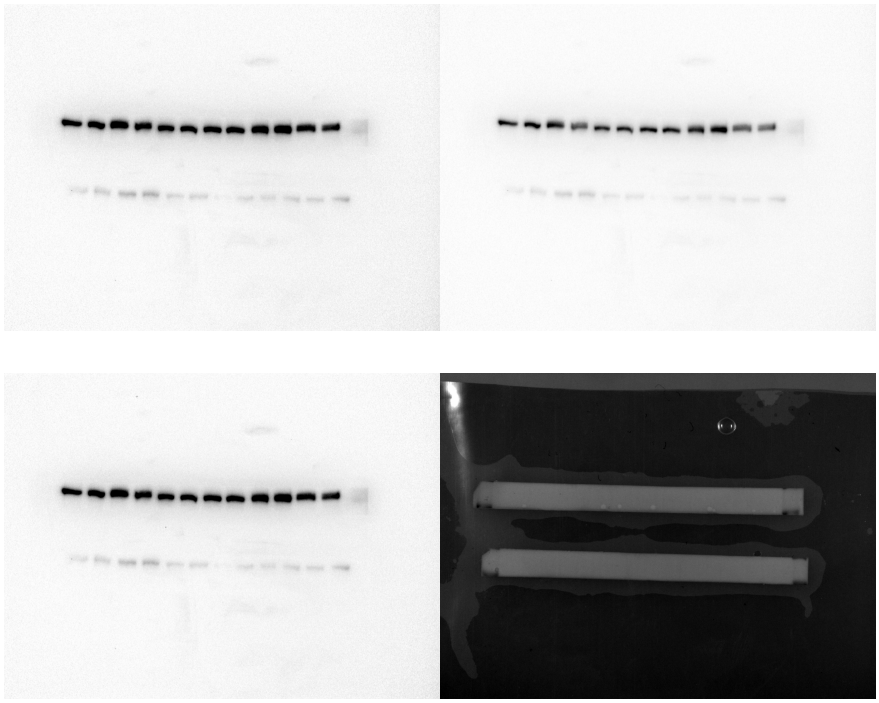
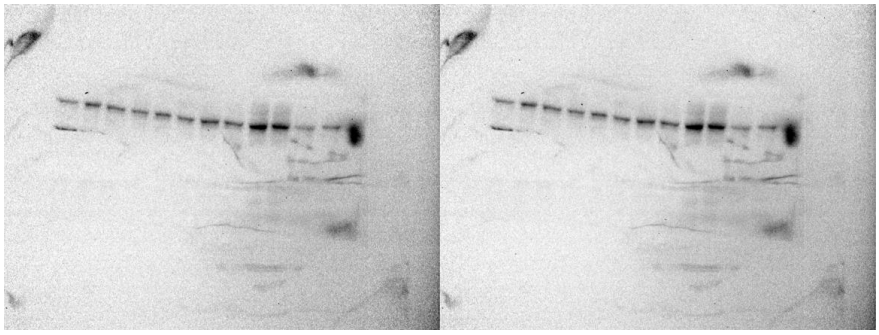
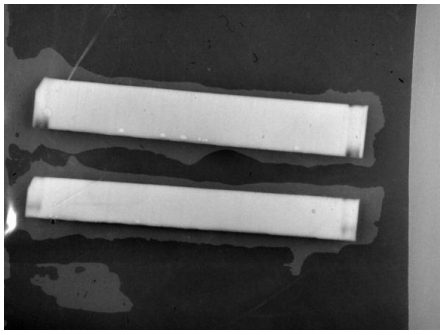


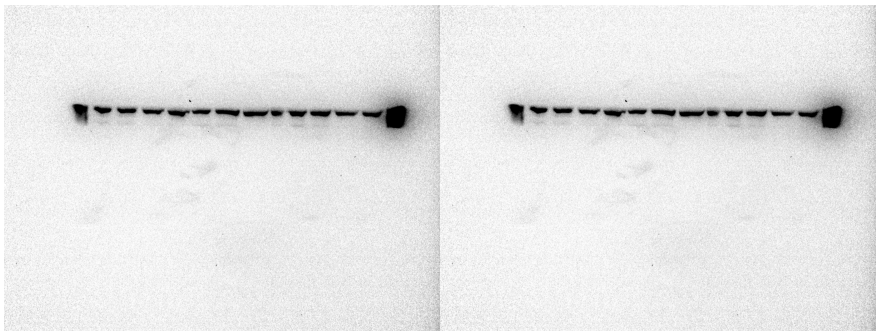
Fig 2A1

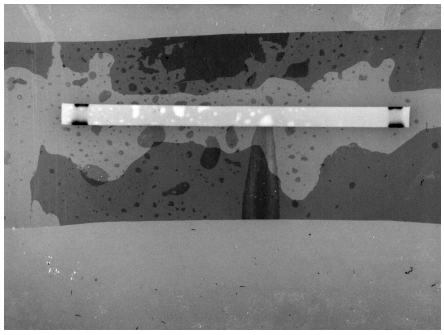
ASIC1α (HepG2+L-02)



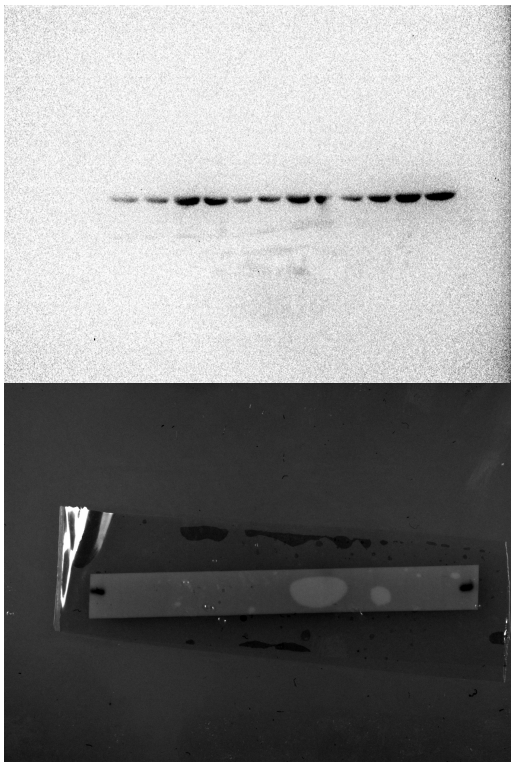


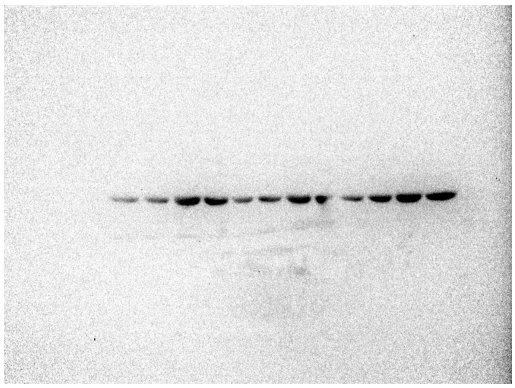
β-actin (HepG2+L-02)





ASIC1α (SK-Hep1+L-02)





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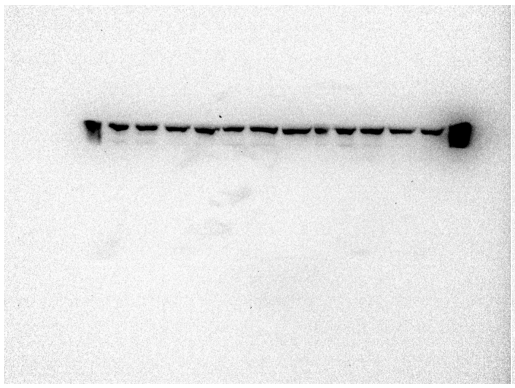
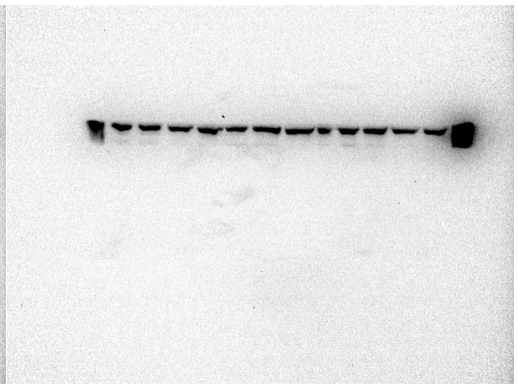




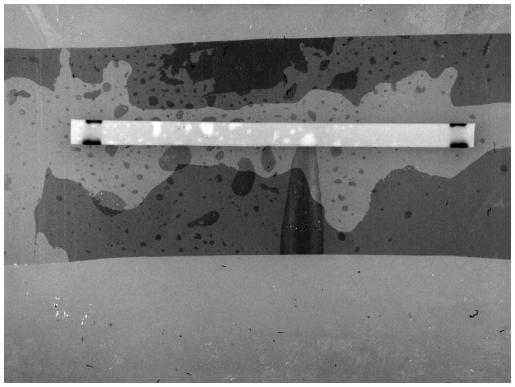
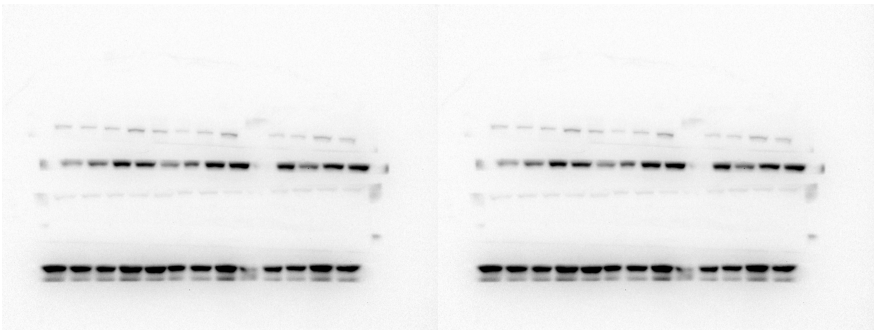
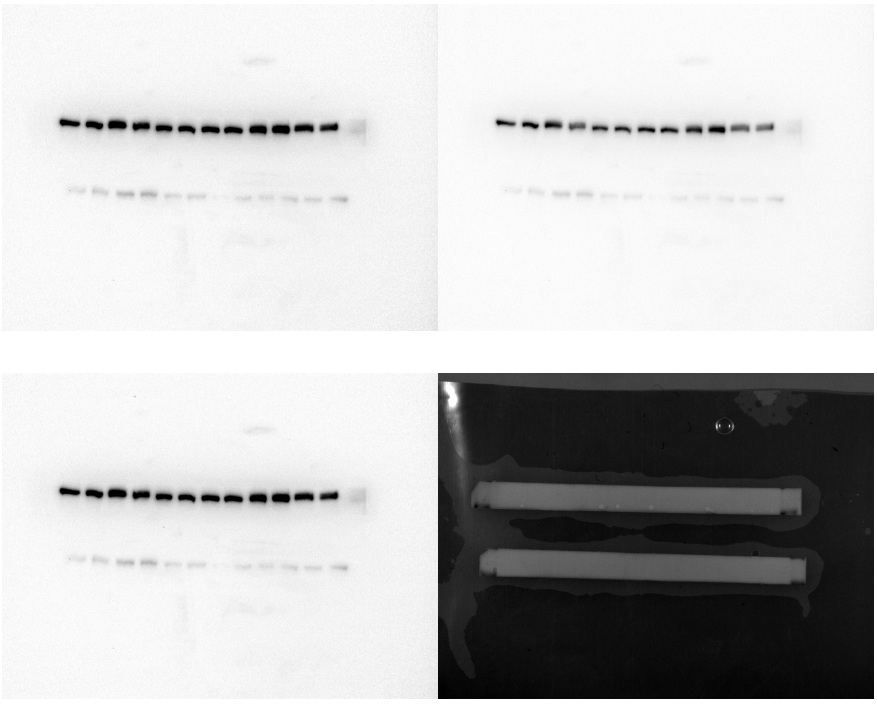


Fig 3A1

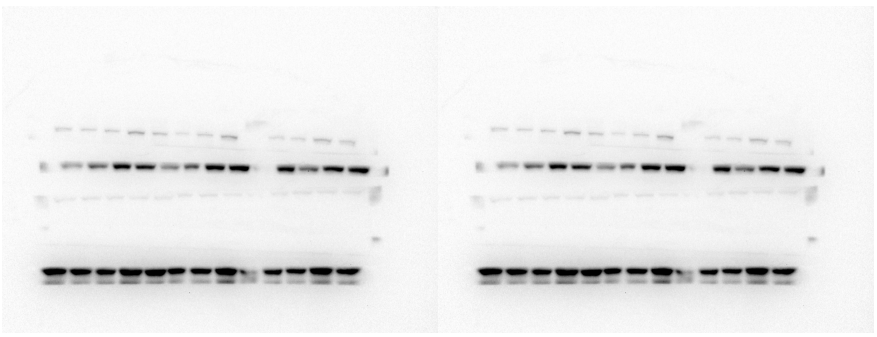
ASIC1α (HepG2+L-02)



β-actin (HepG2+L-02)



ASIC1α (SK-Hep1+L-02)



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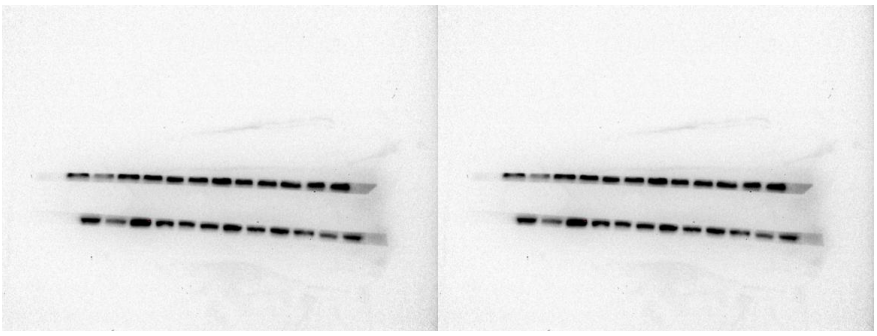
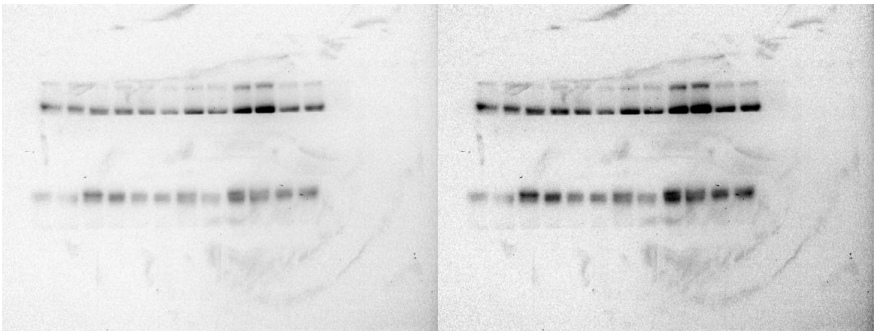
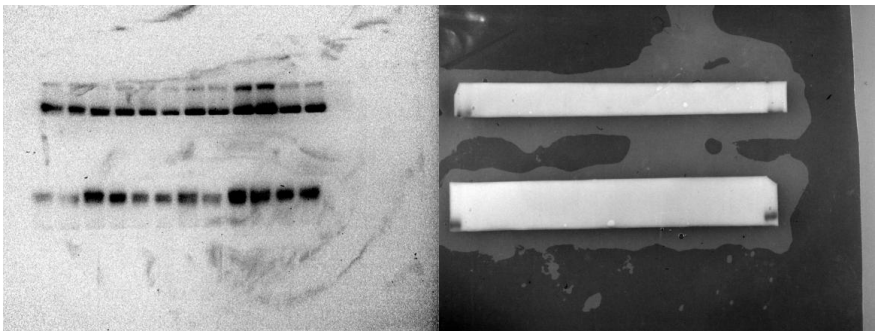


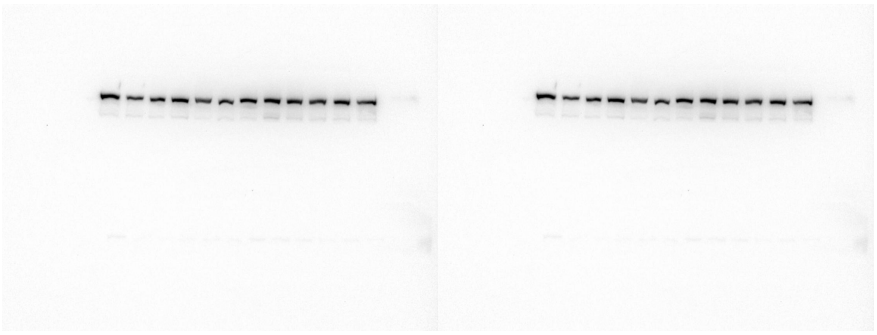
Fig 4A1

ASIC1α (HepG2+L-02)

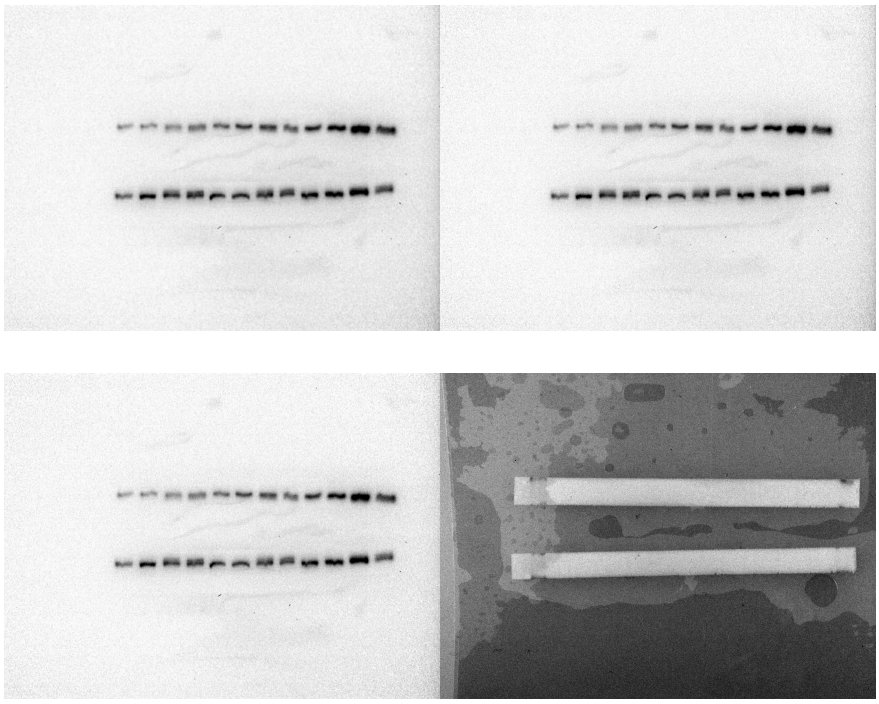




β-actin (HepG2+L-02)



ASIC1α (SK-Hep1+L-02)



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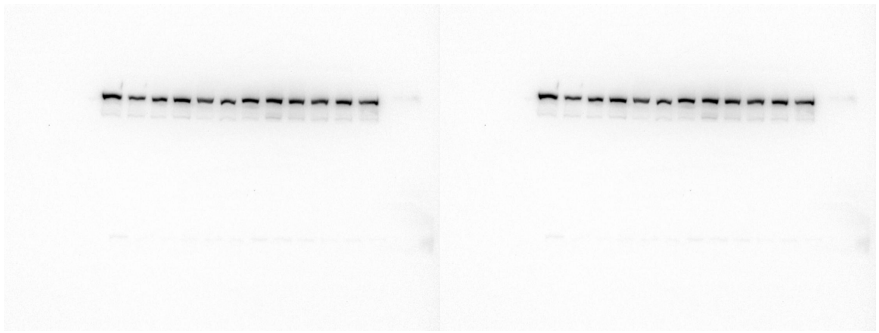
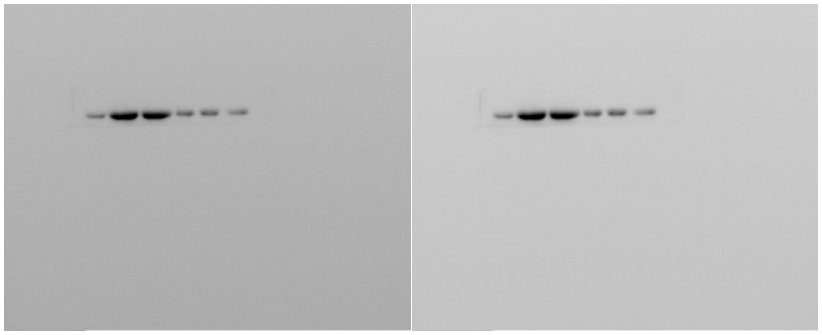
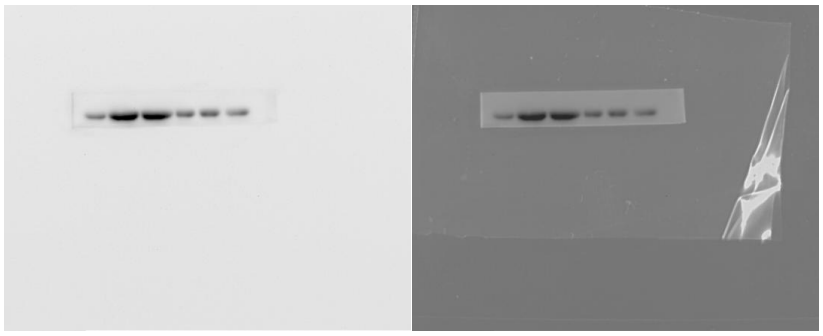


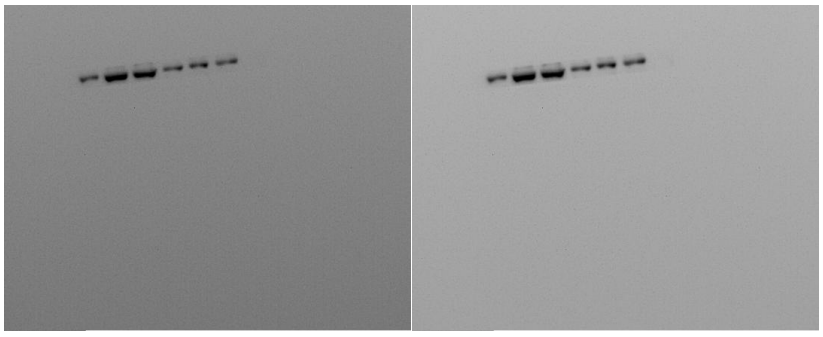
Fig 5A1

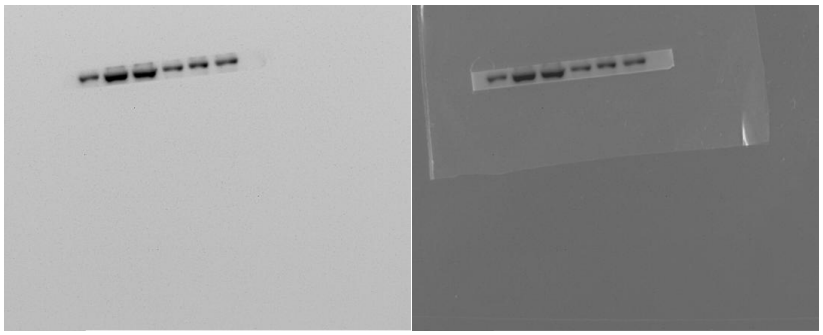
MMP-9 (HepG2+L-02)





MMP-2 (HepG2+L-02)





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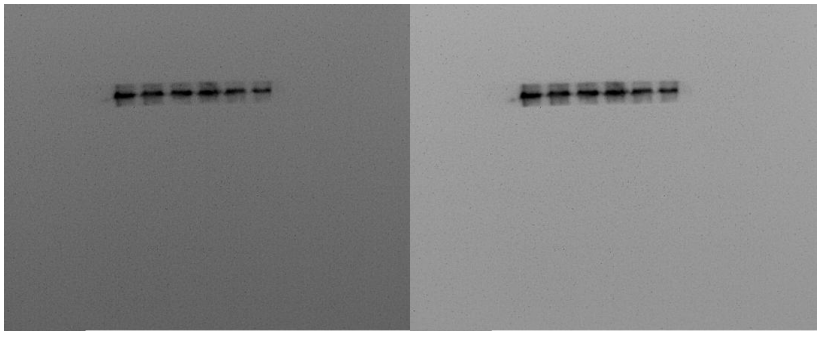
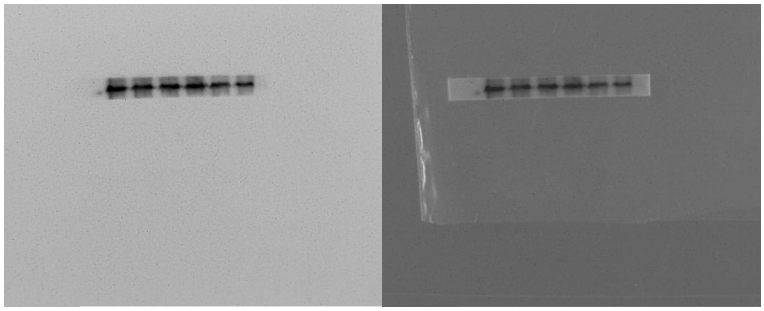
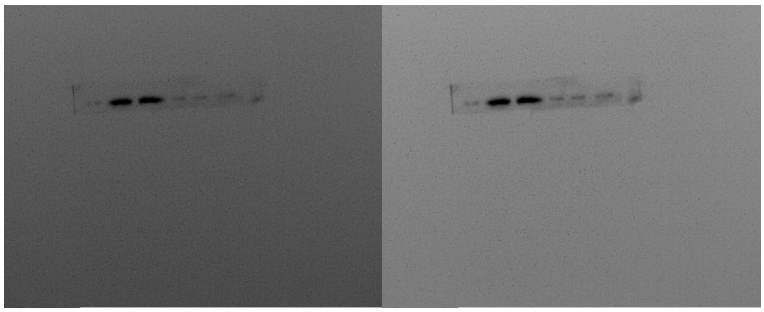
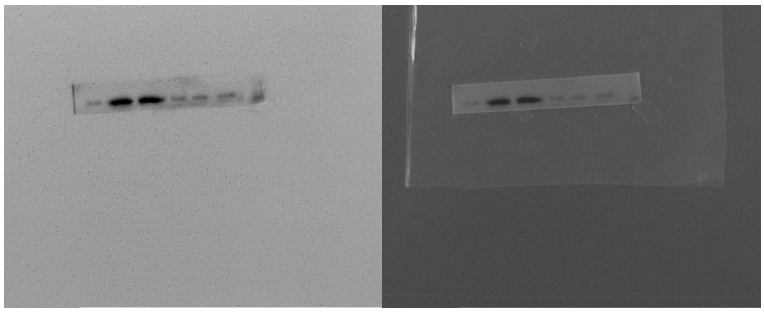




MMP-9 (SK-Hep1+L-02)





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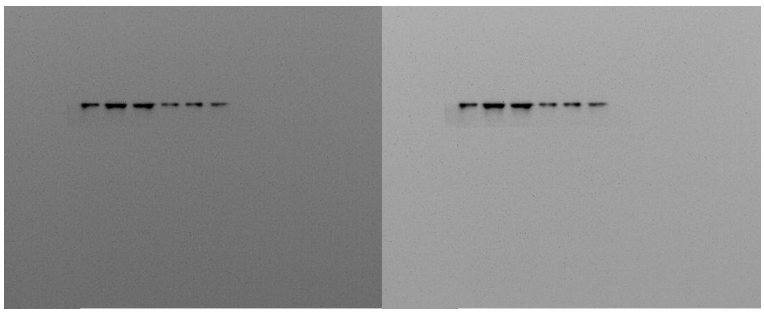

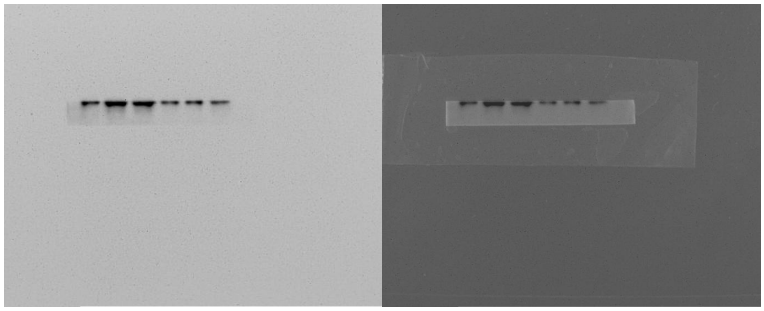

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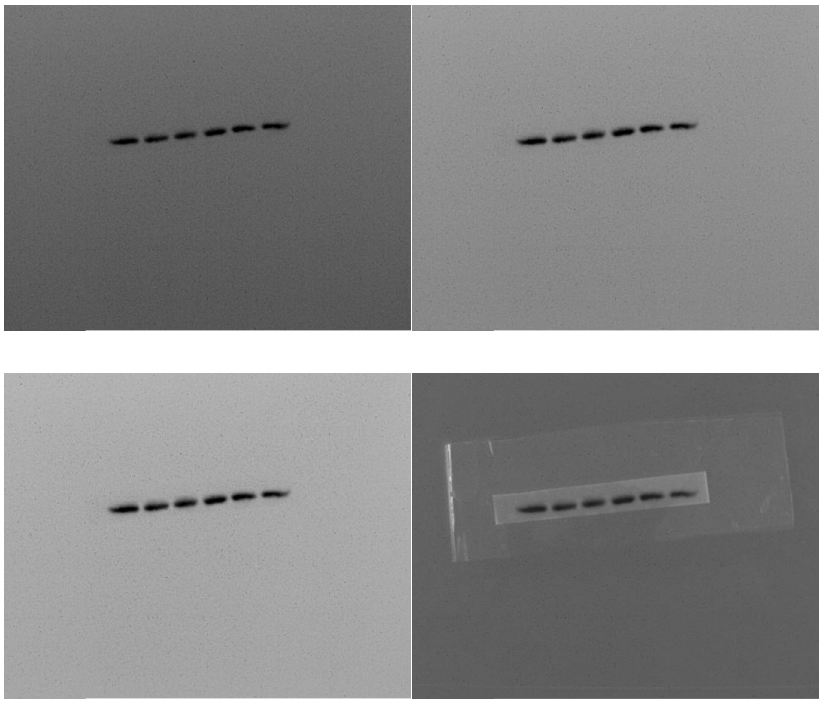
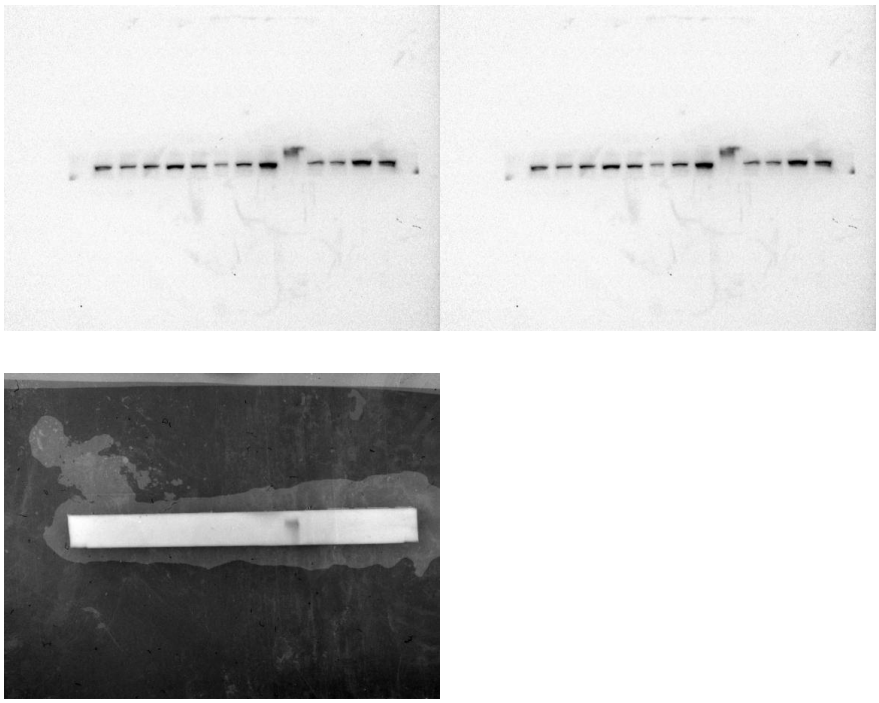
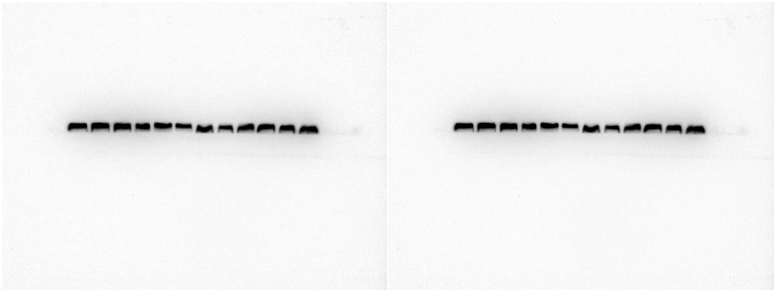


Fig 6A1

p-PI3Kp85 (HepG2+L-02)



t-PI3Kp85 (HepG2+L-02)



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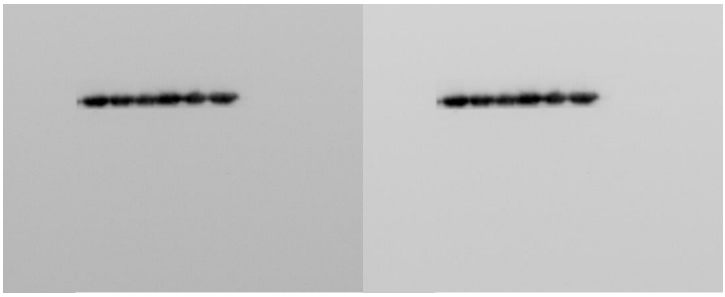
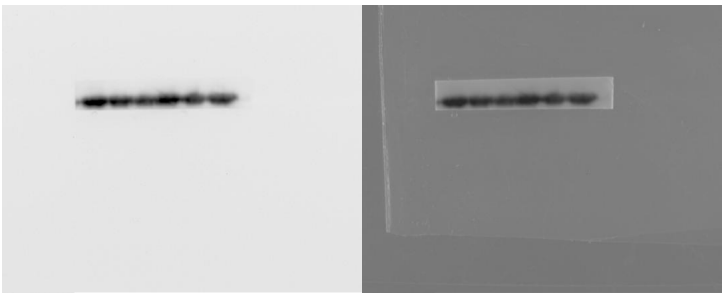
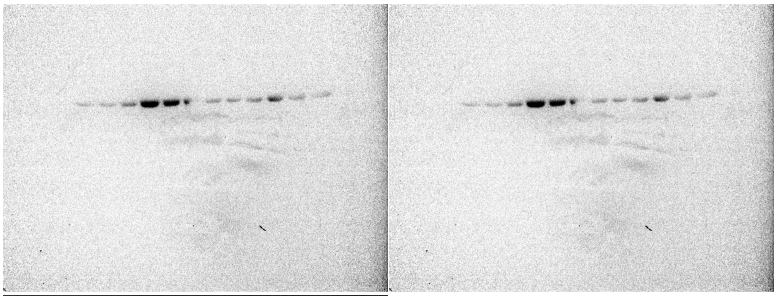
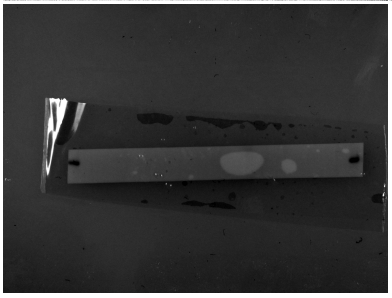


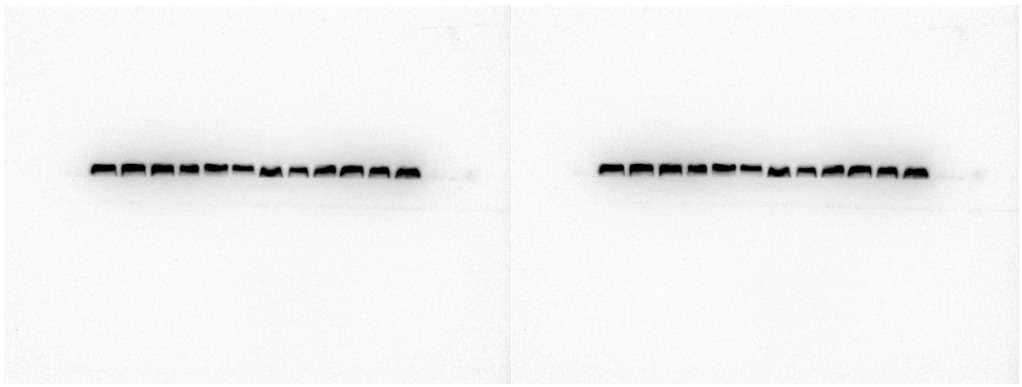


p-PI3Kp85 (SK-Hep1+L-02)





t-PI3Kp85 (SK-Hep1+L-02)



β-actin (SK-Hep1+L-02)

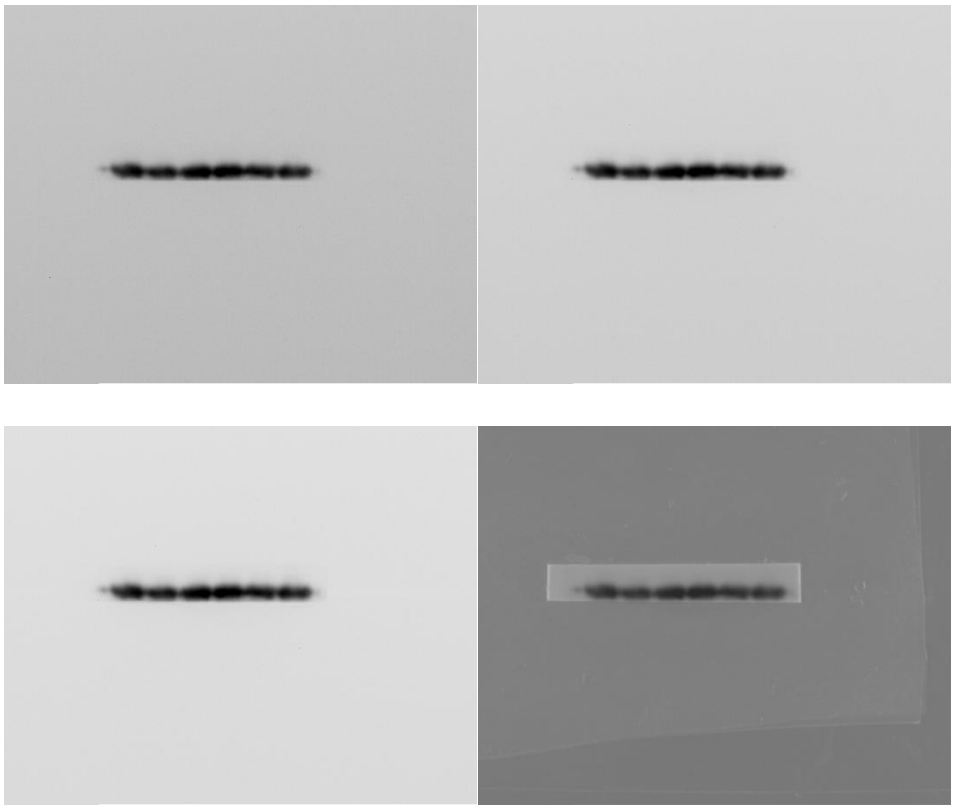
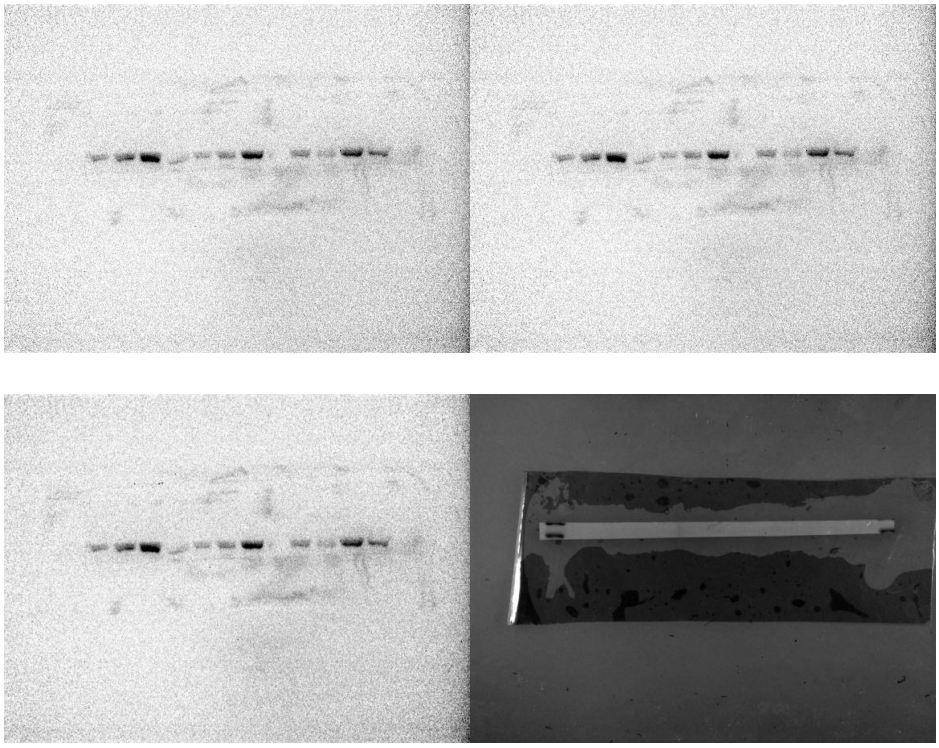
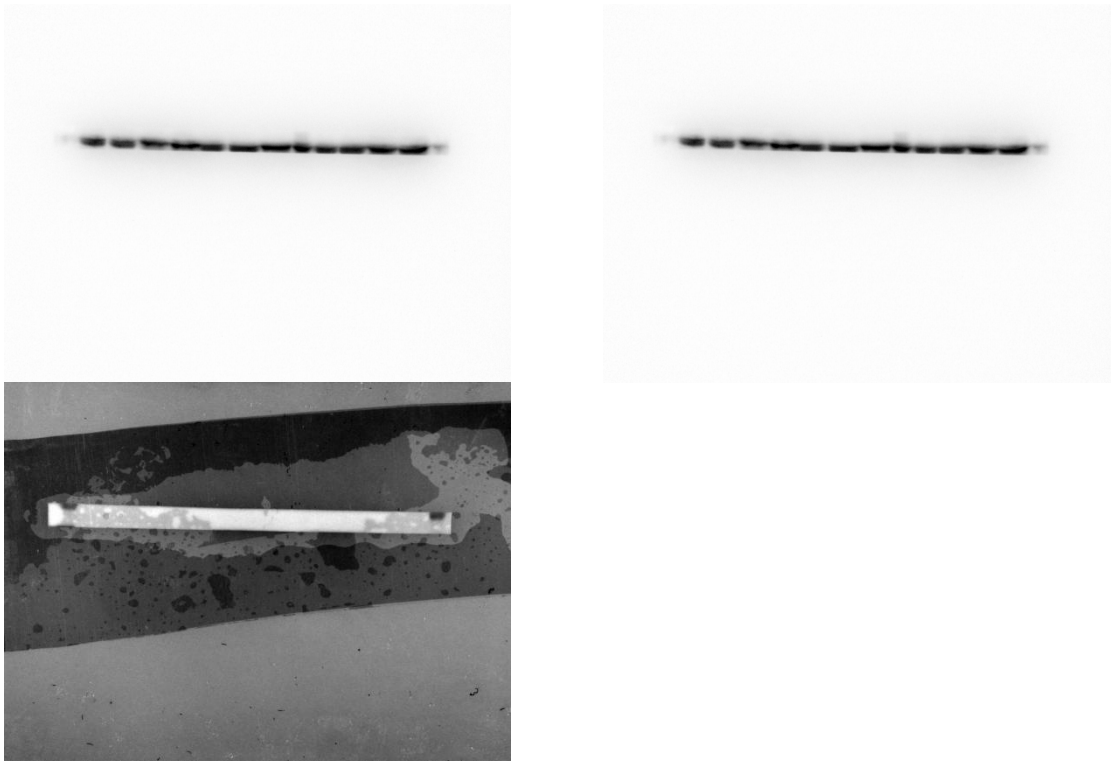


Fig 6B1

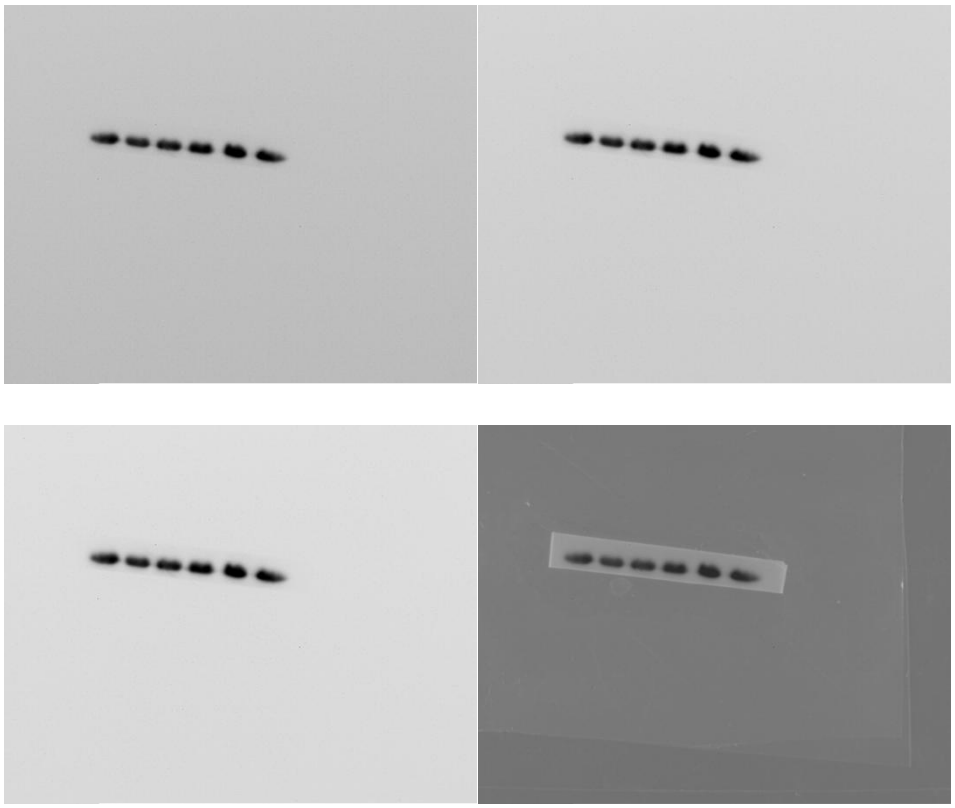
p-mTOR(Ser2448) (HepG2+L-02)



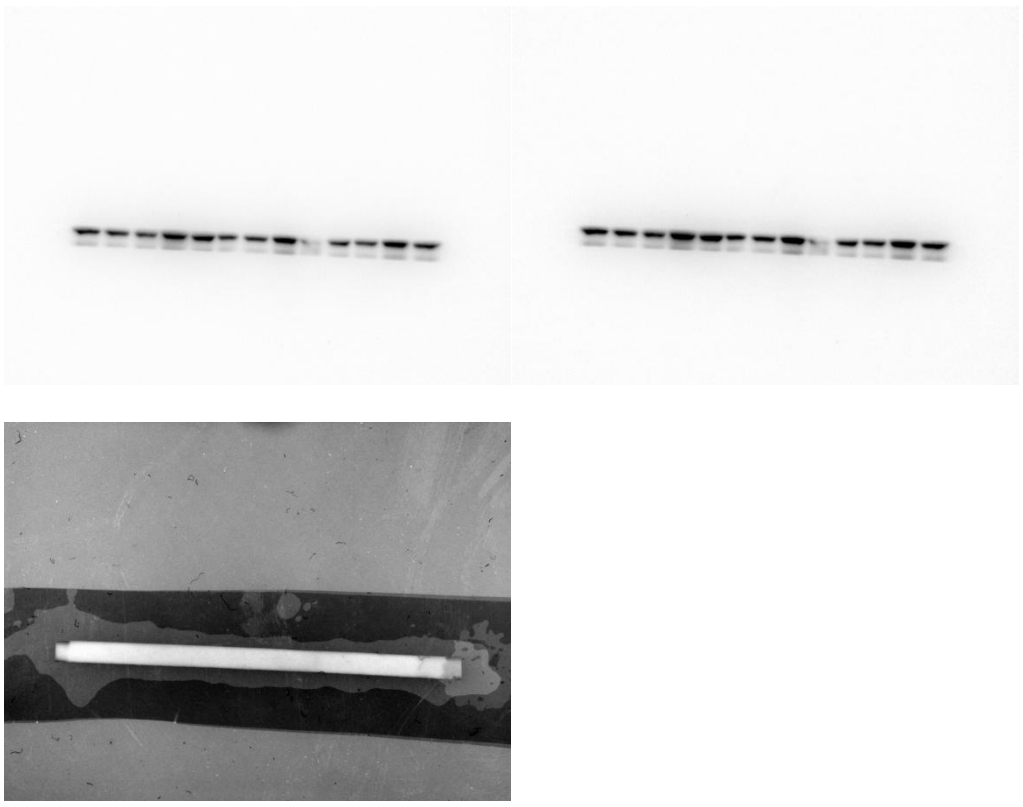
t-mTOR (HepG2+L-02)



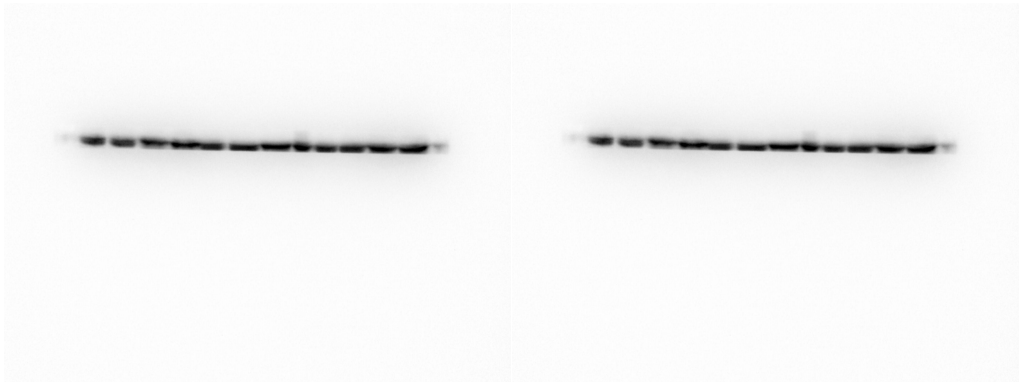
β-actin (HepG2+L-02)

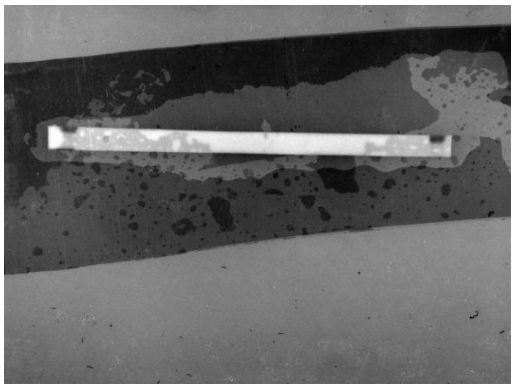


p-mTOR(Ser2448) (SK-Hep1+L-02)

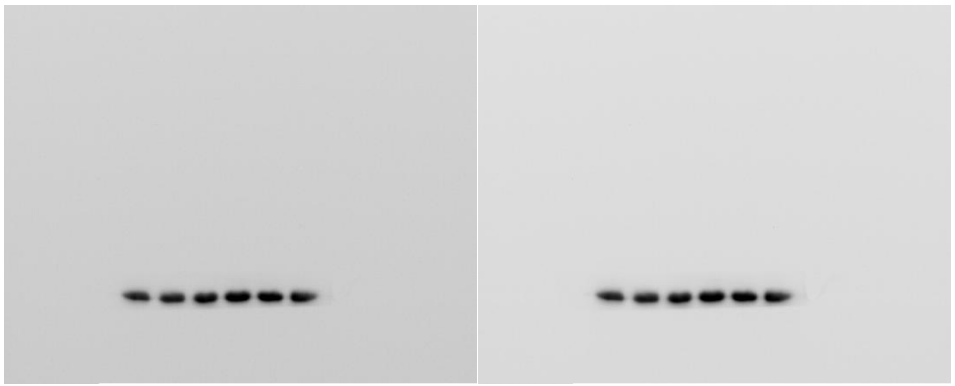


t-mTOR (SK-Hep1+L-02)





β-actin (SK-Hep1+L-02)



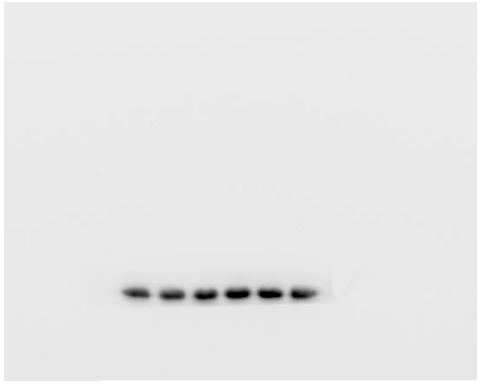
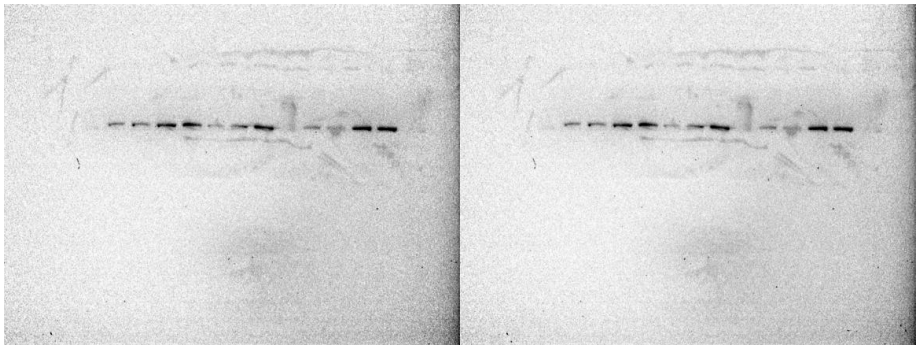
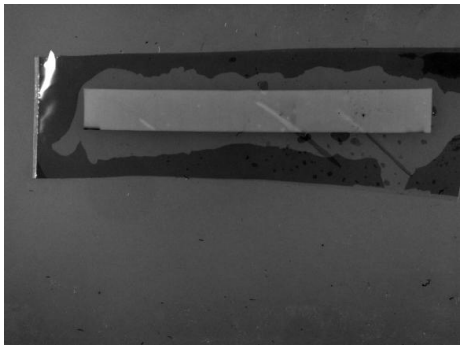


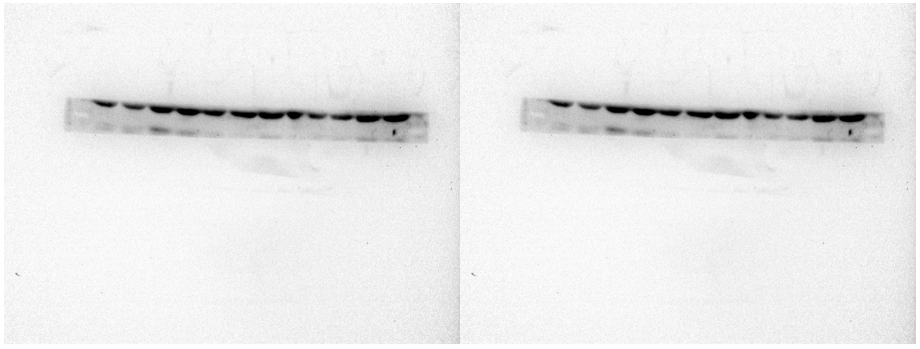
Fig 6C1

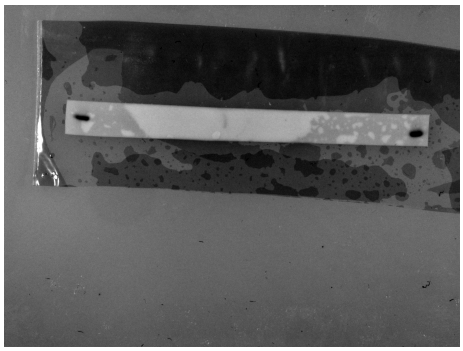
p-Akt(Ser473) (HepG2+L-02)



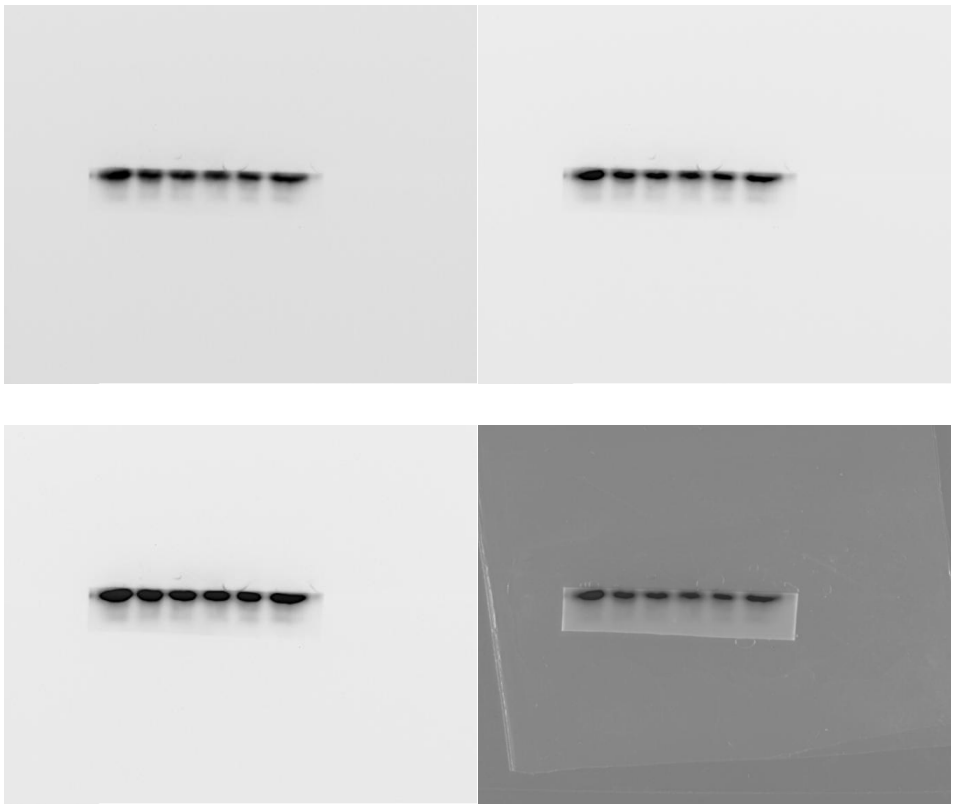


t-Akt (HepG2+L-02)

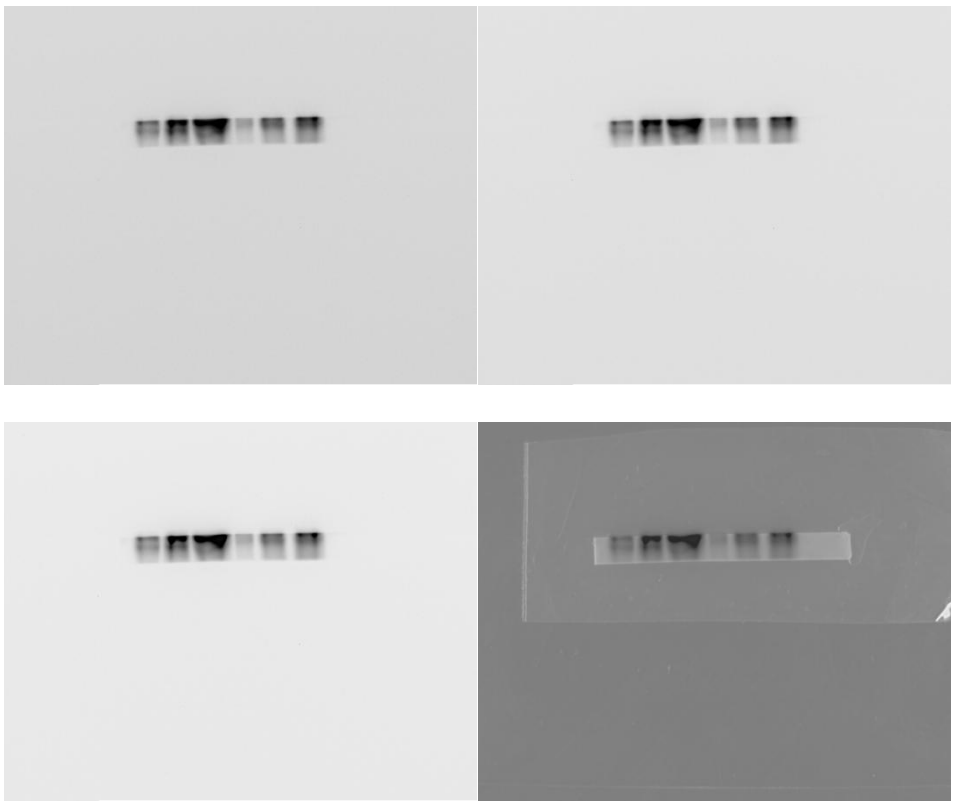




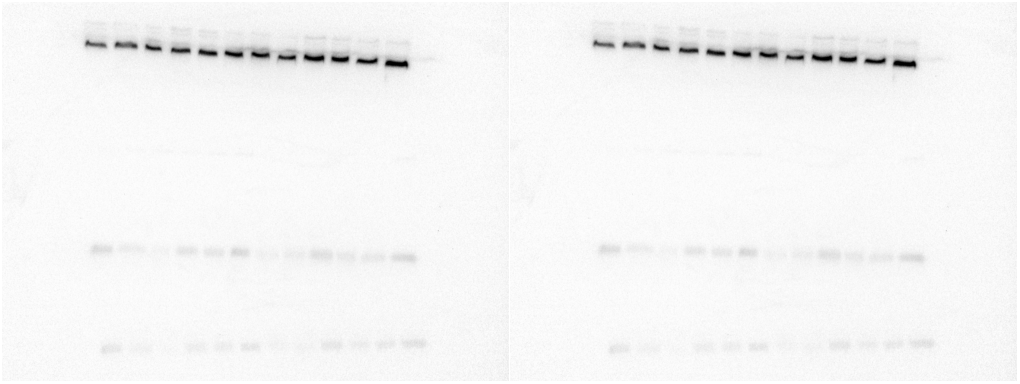
β-actin (HepG2+L-02)



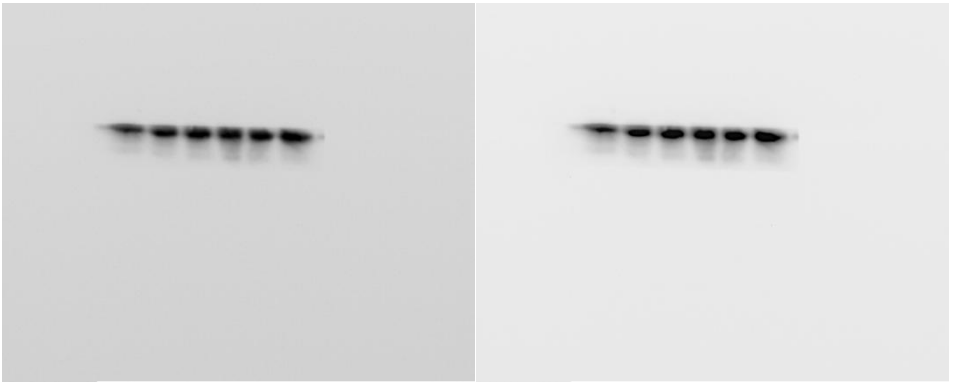
p-Akt(Ser473) (SK-Hep1+L-02)



t-Akt (SK-Hep1+L-02)



β-actin (SK-Hep1+L-02)



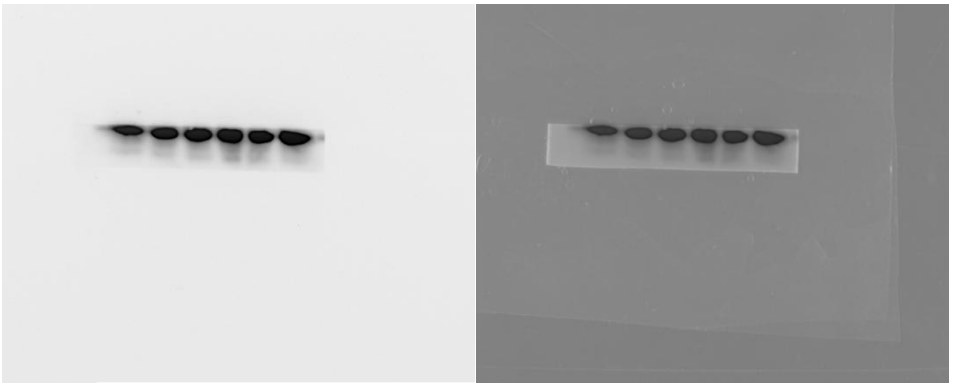
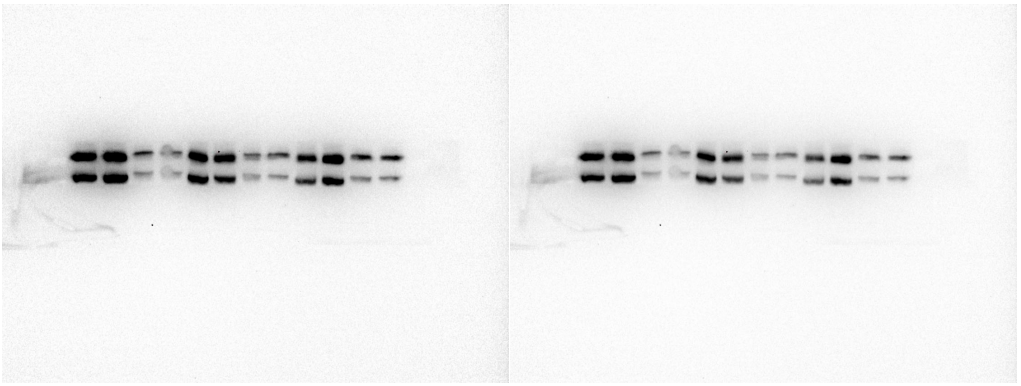
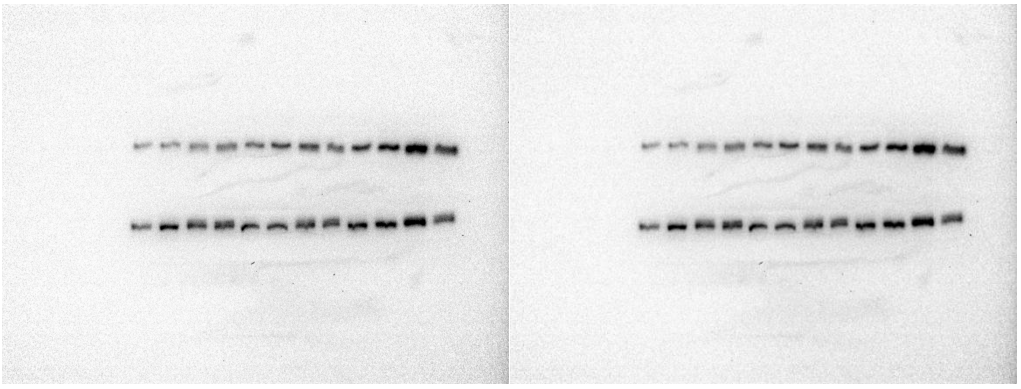


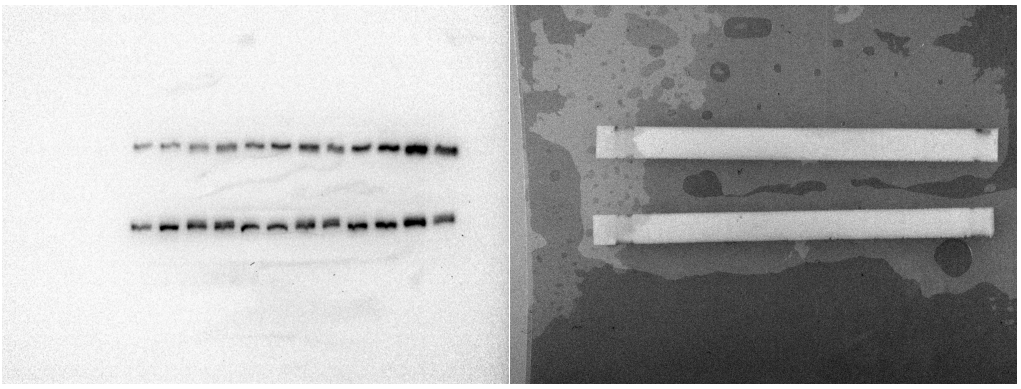
Fig 7A1

MMP-9 (HepG2)

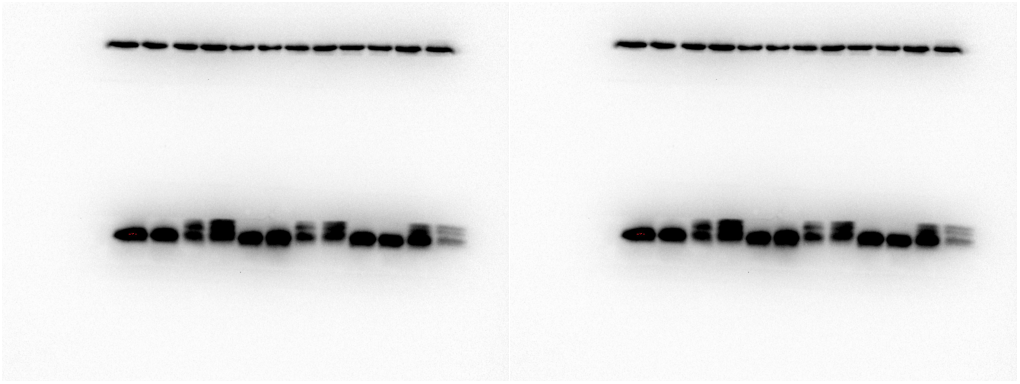


MMP-2 (HepG2)

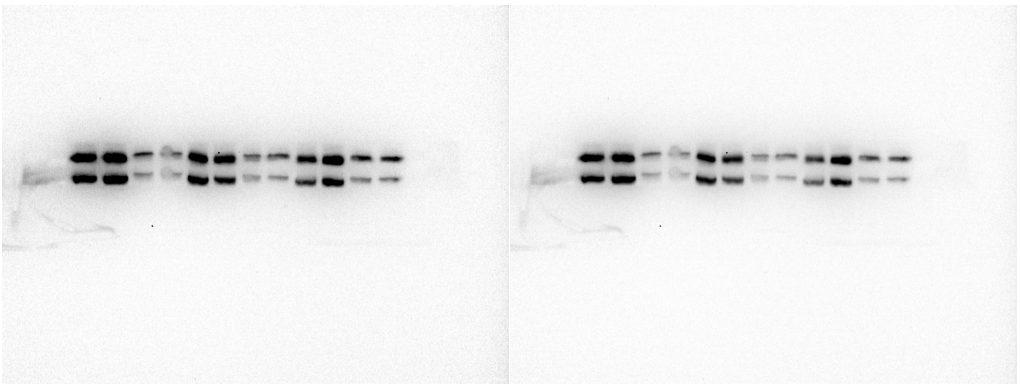




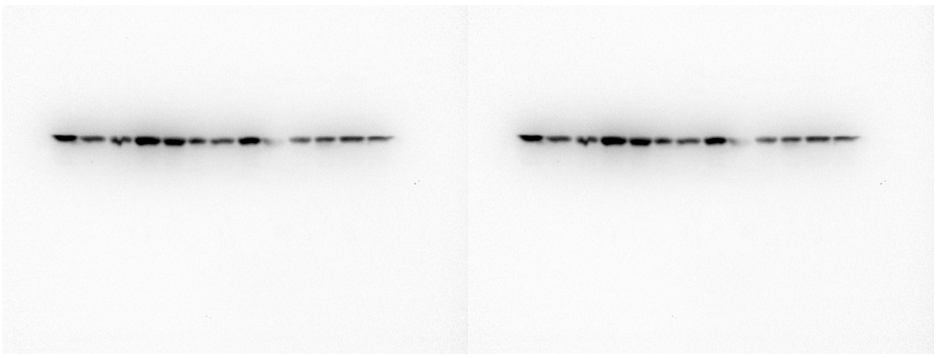
β-actin (HepG2)

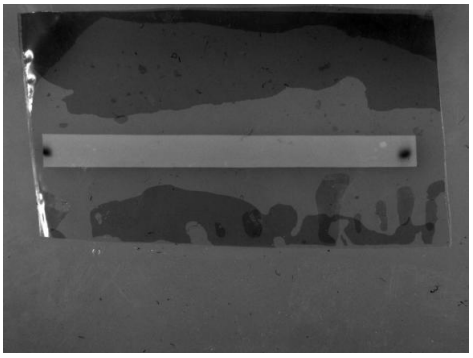


MMP-9 (SK-Hep1)



MMP-2 (SK-Hep1)





β-actin (SK-Hep1)

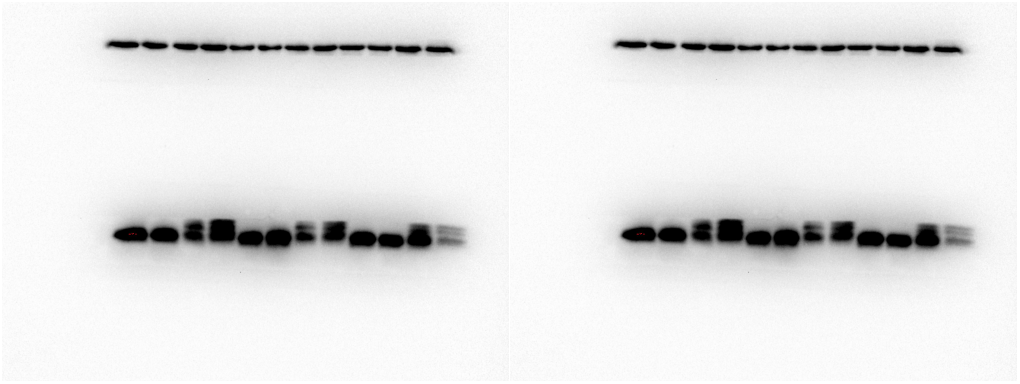
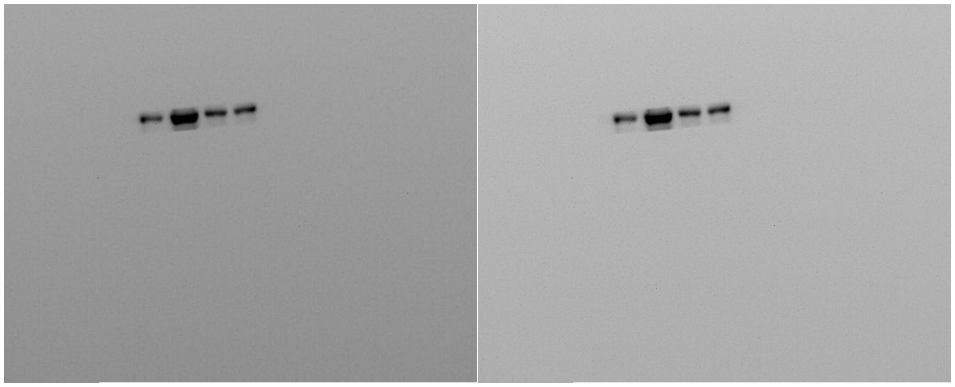
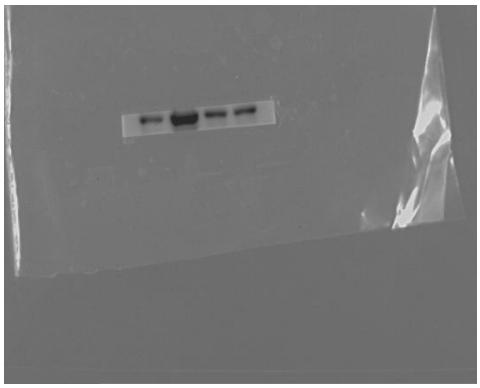


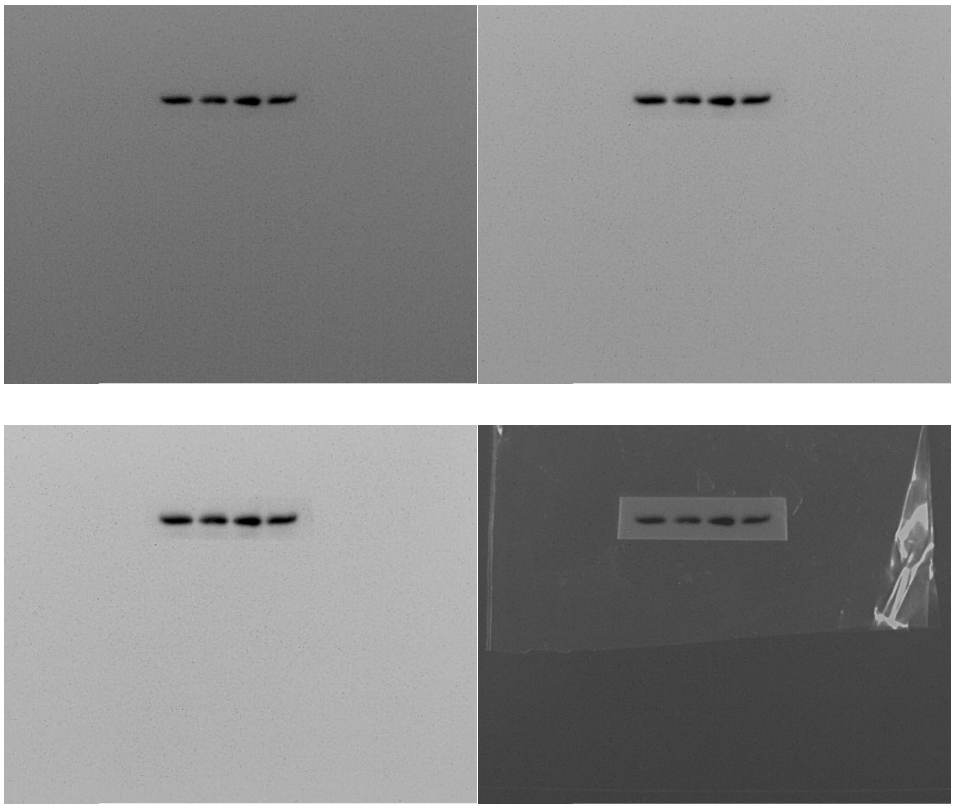
Fig 8A1

MMP-2 (HepG2)

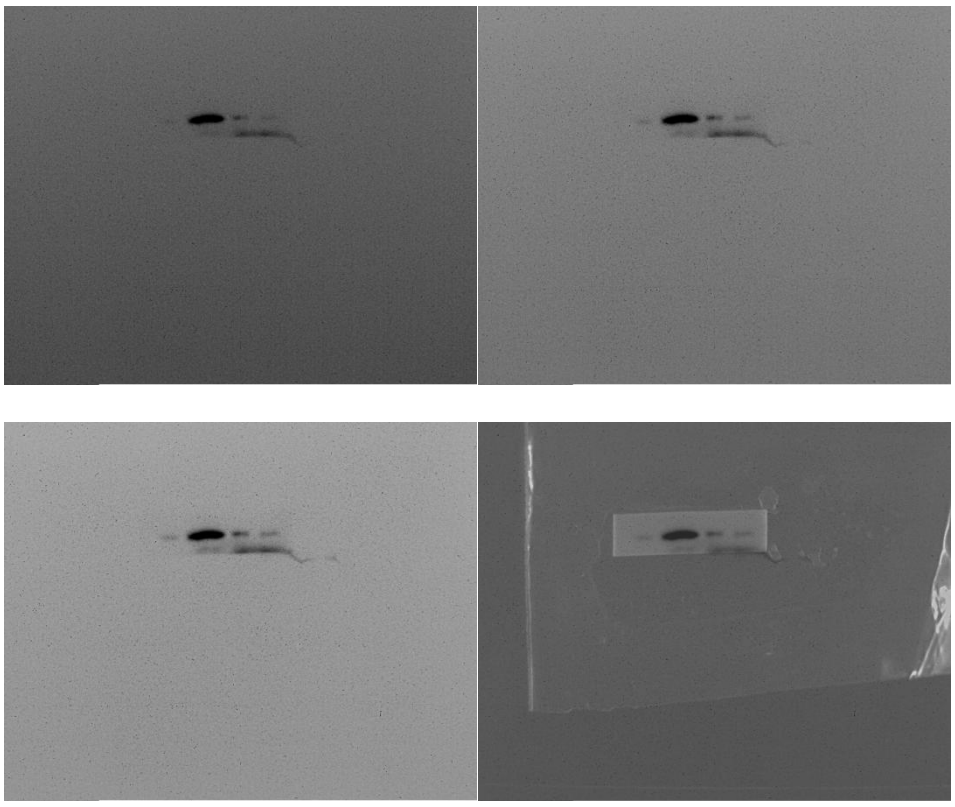




β-actin (HepG2)



MMP-2 (SK-Hep1)



β-actin (SK-Hep1)

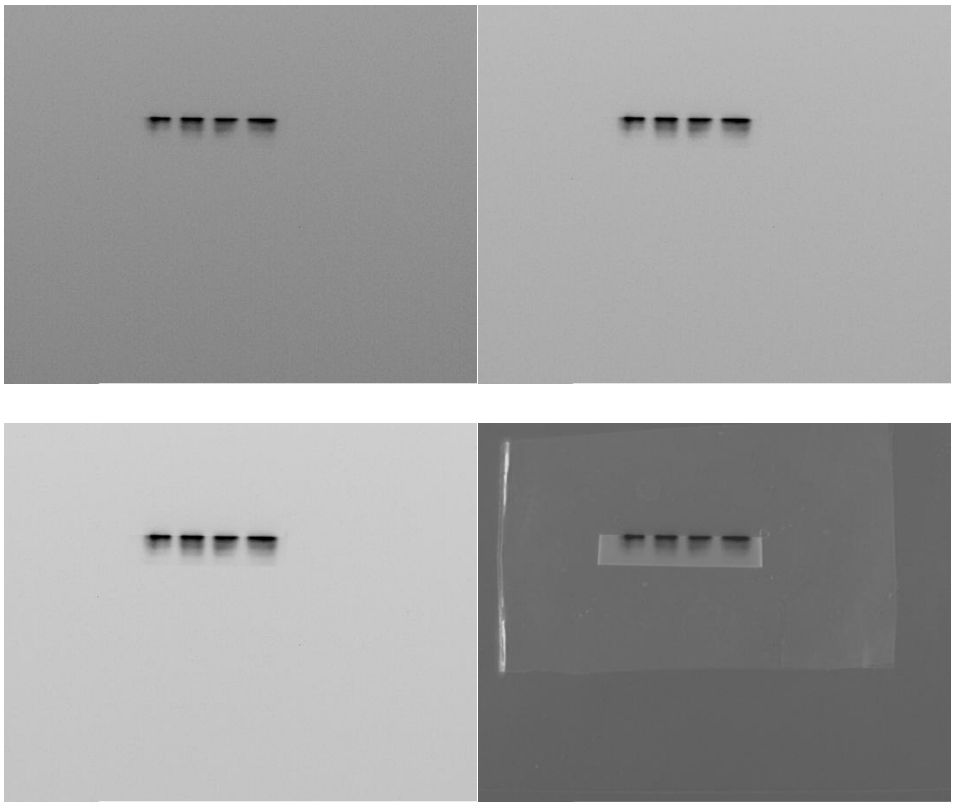
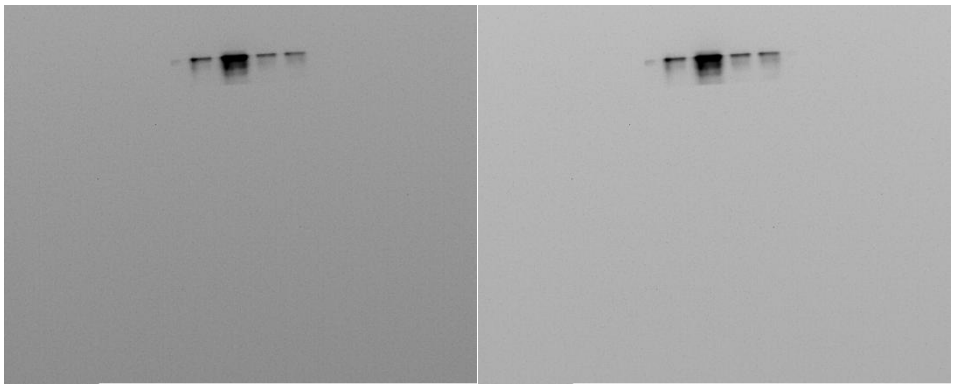
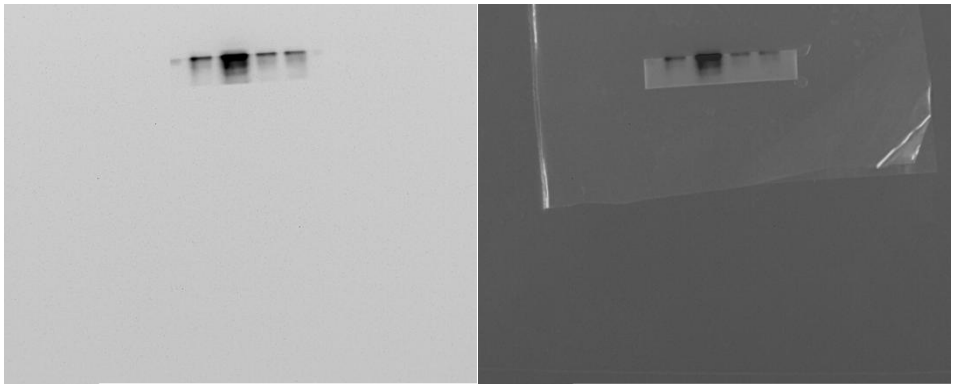


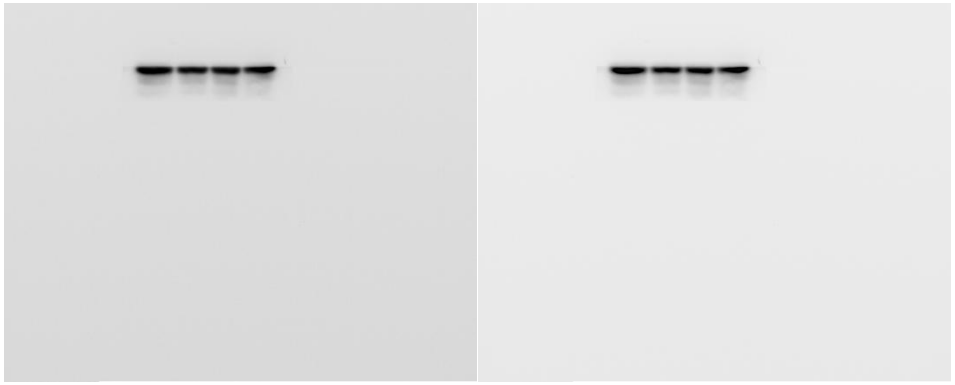
Fig 8B1

MMP-9 (HepG2)

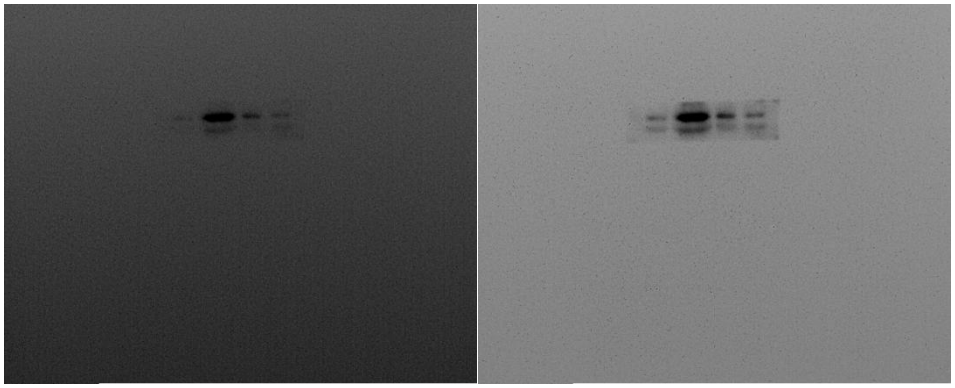




β-actin (HepG2)



MMP-9 (SK-Hep1)



β-actin (SK-Hep1)

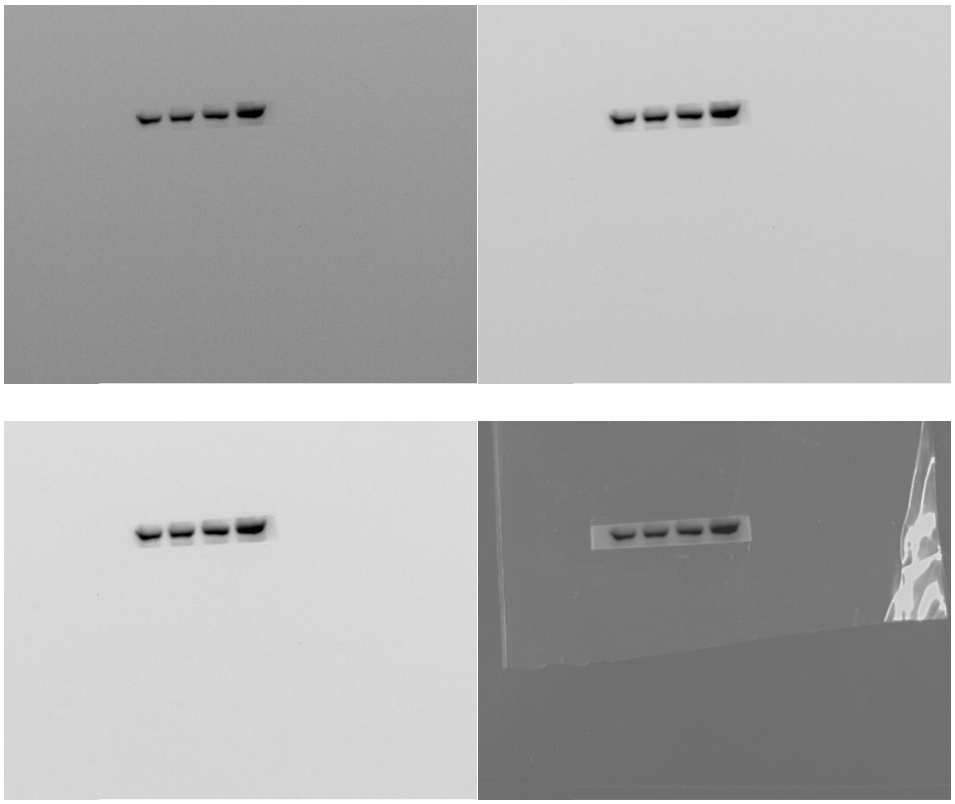
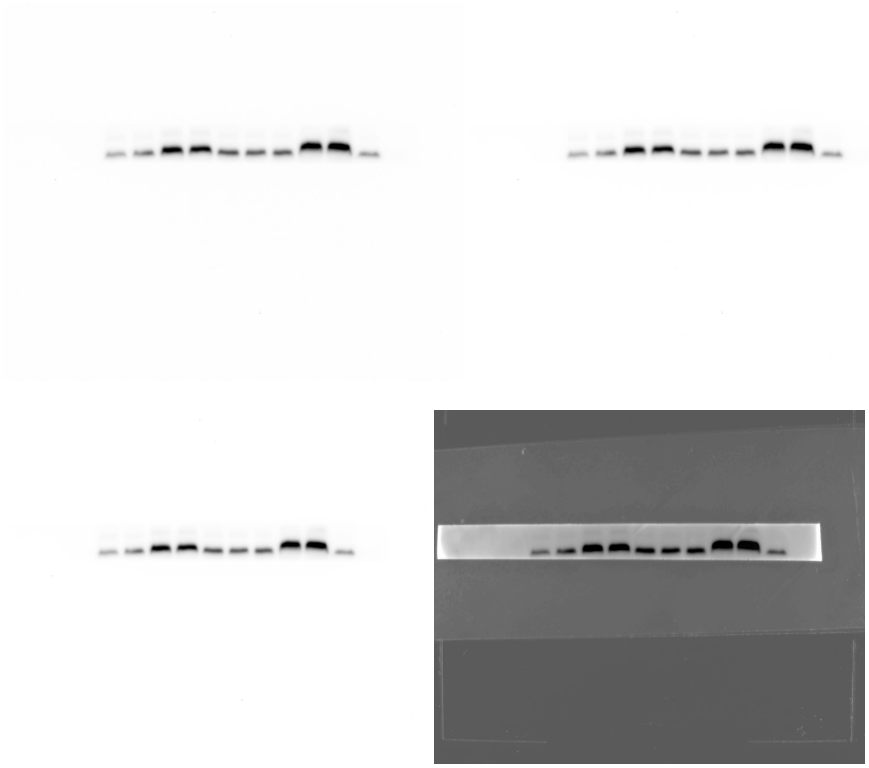
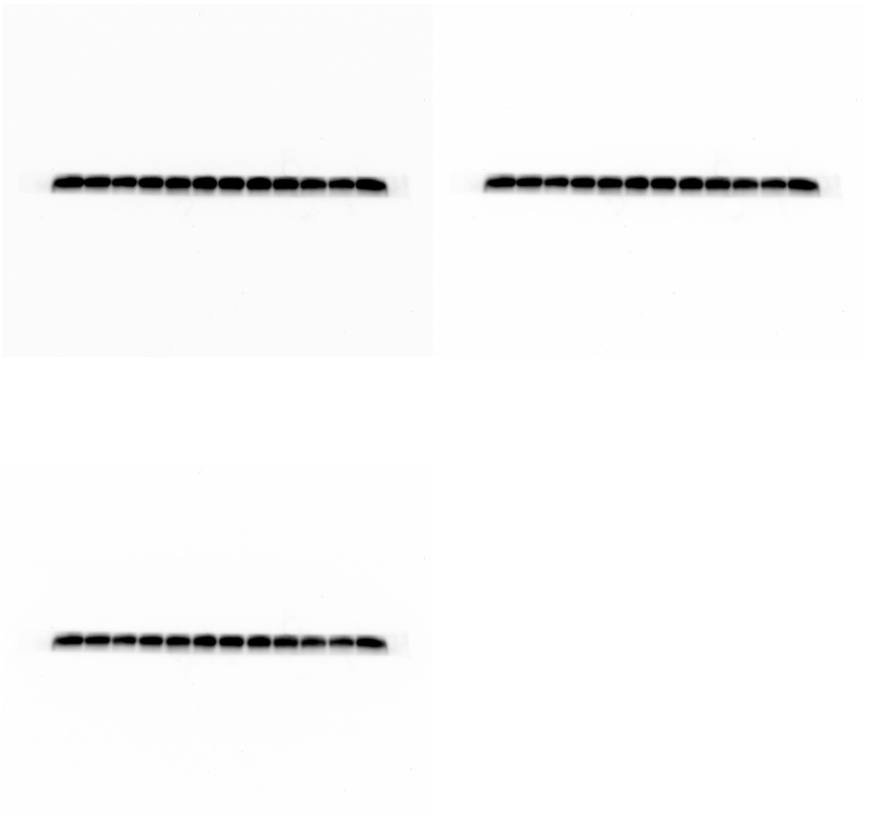


Fig 8C1

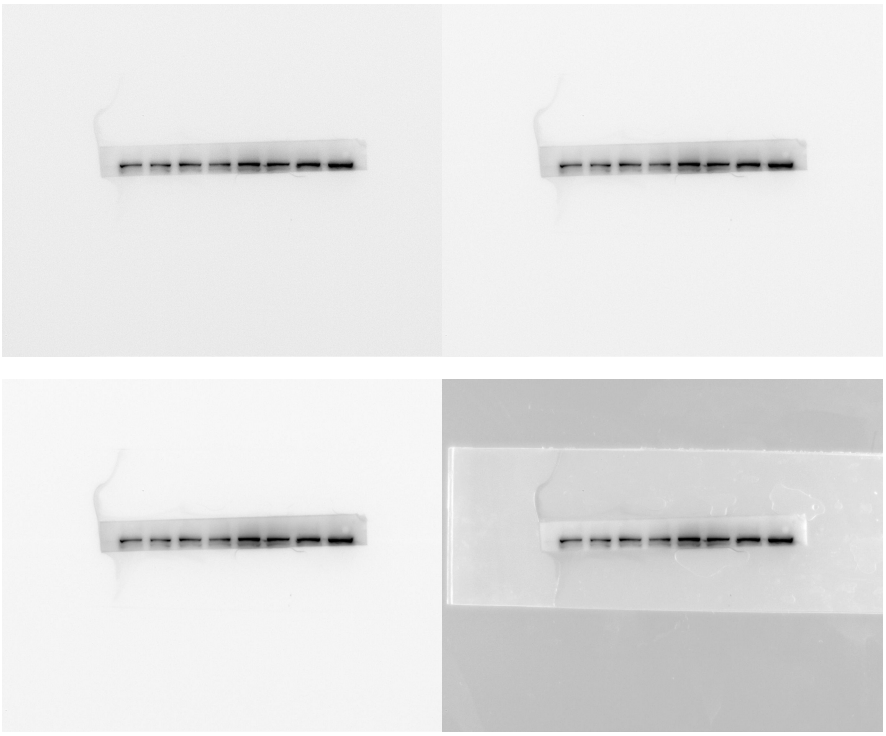
p-Akt(Ser473) (HepG2)



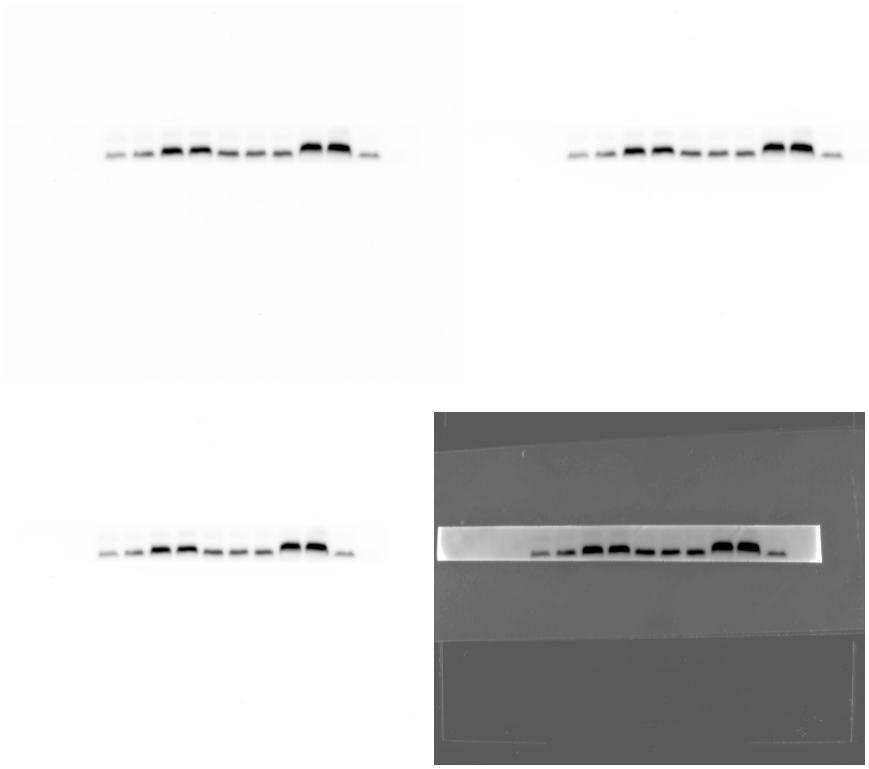
t-Akt (HepG2)



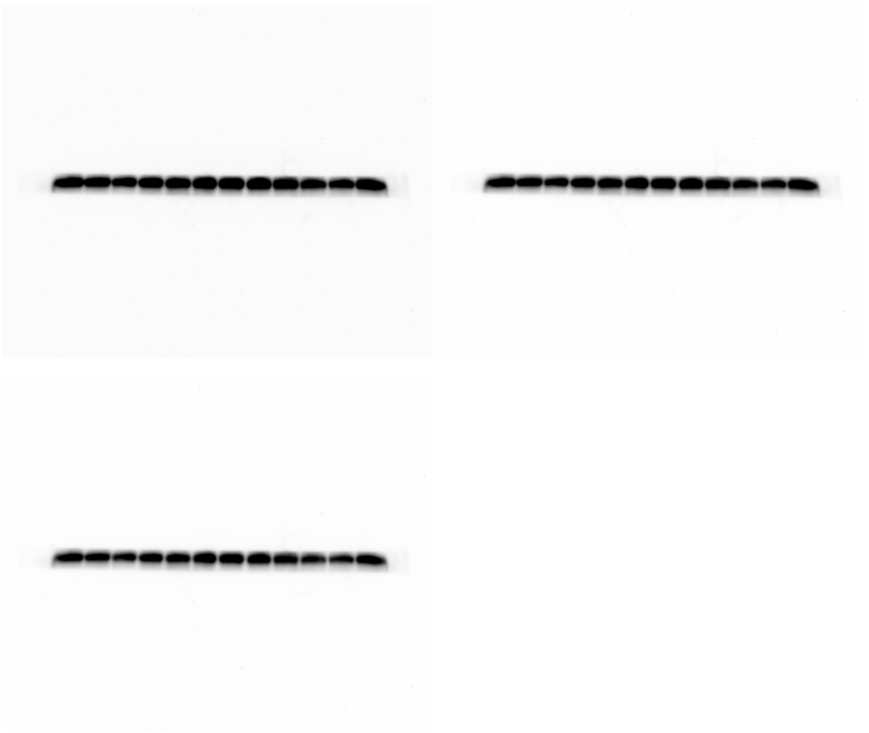
β-actin (HepG2)



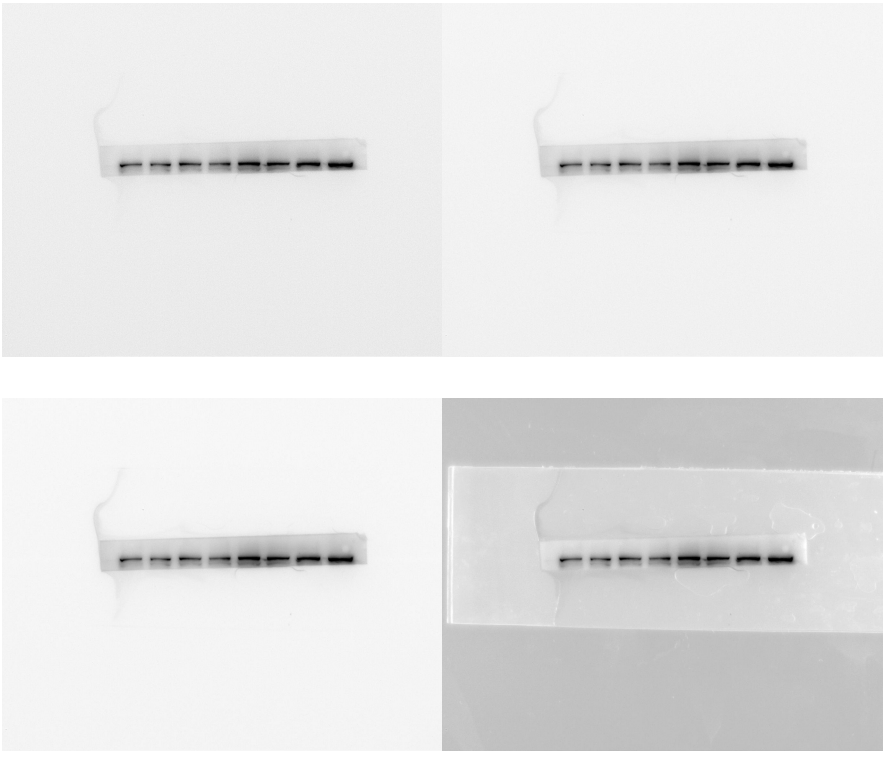
p-Akt(Ser473) (SK-Hep1)



t-Akt (SK-Hep1)



β-actin (SK-Hep1)



Remarks: Due to insufficient experimental funds, in the western blot assay, we cut the PVDF membrane into a membrane small enough to incubate the antibody according to the molecular weight of the incubated antibody and the protein molecular weight marker. In addition, protein samples of related research topics that were conducted simultaneously were added to the same gel for protein electrophoresis. We have made the above remarks in **Materials and methods** section of the manuscript.