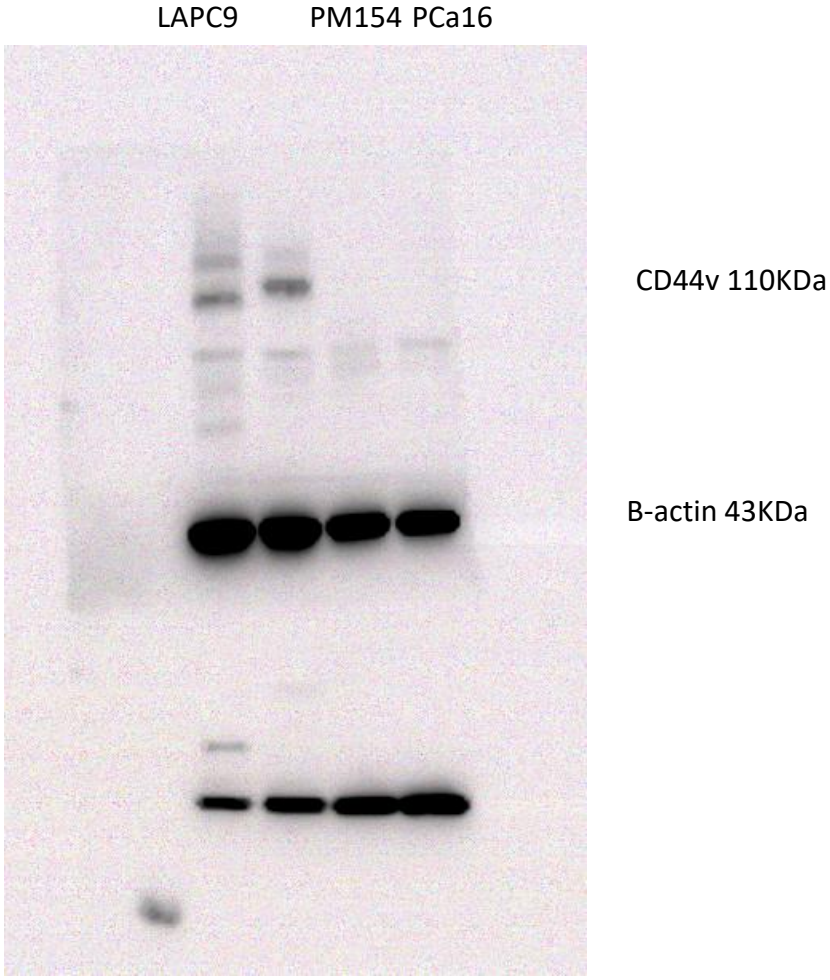
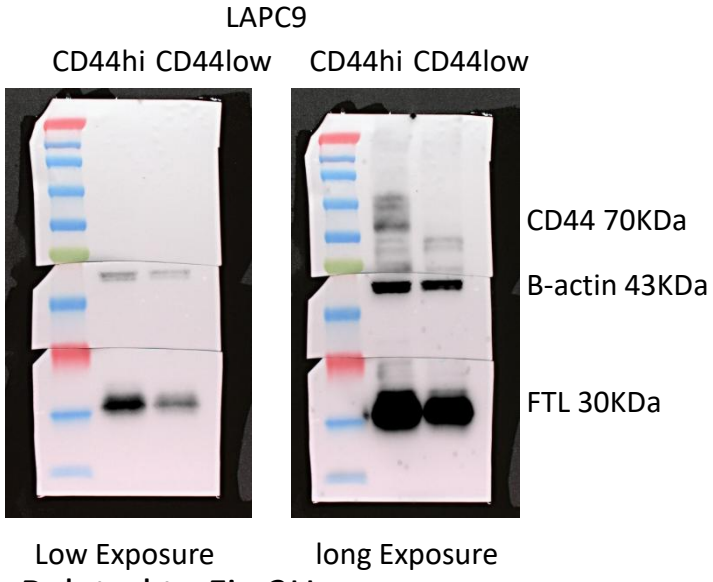
Supplementary_Uncropped_Gels_and_Blots

# An iron-KDM3A-H3K9me2 circuit sustains stem-like prostate cancer and exposes NRF2-dependent ferroptosis vulnerability

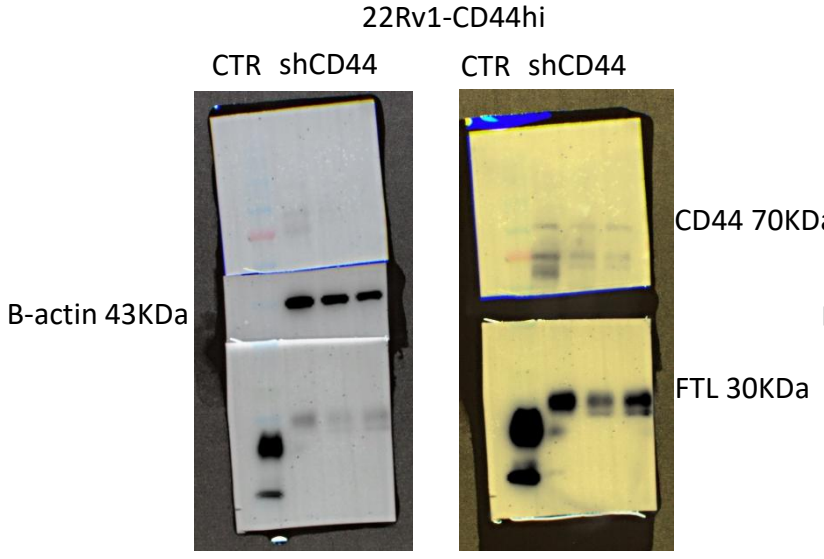
Related to Fig.1c



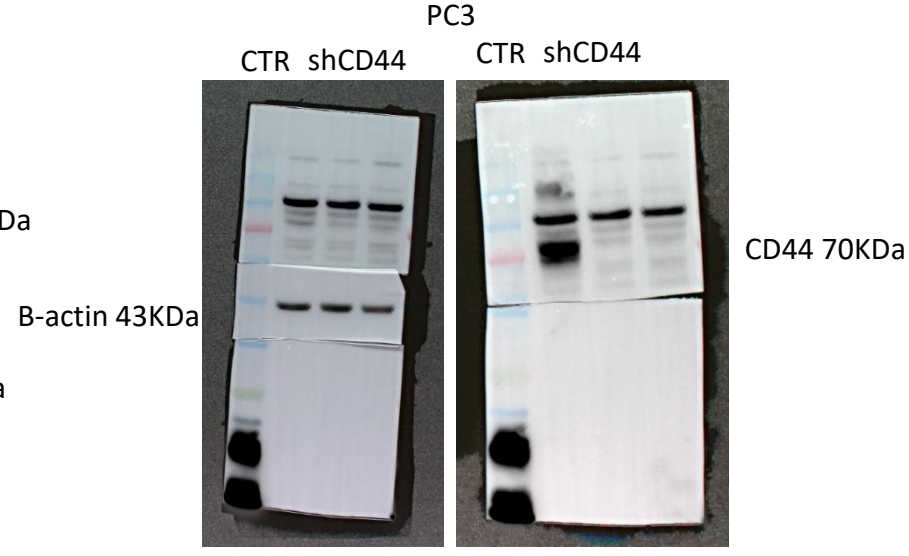
## Related to Fig.2B



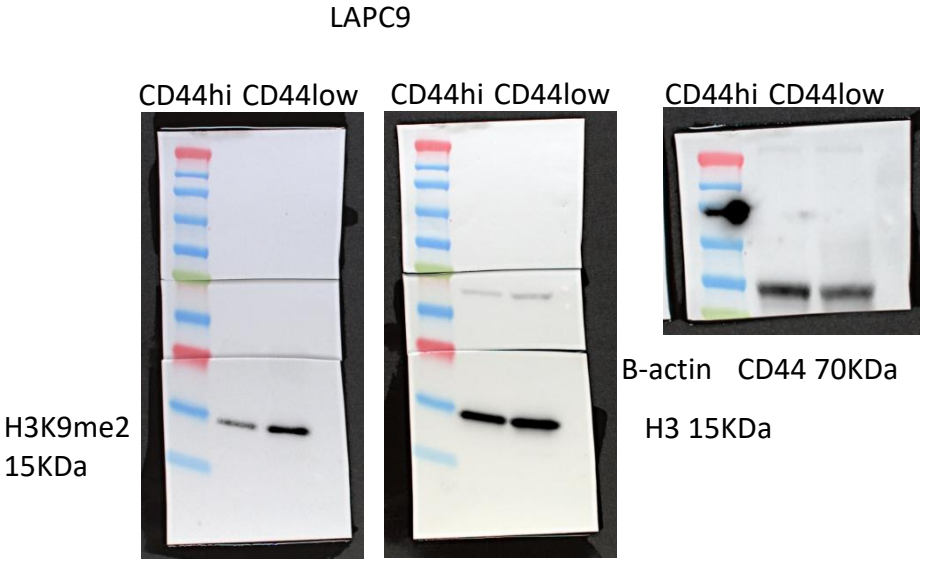

## Related to Fig.2D

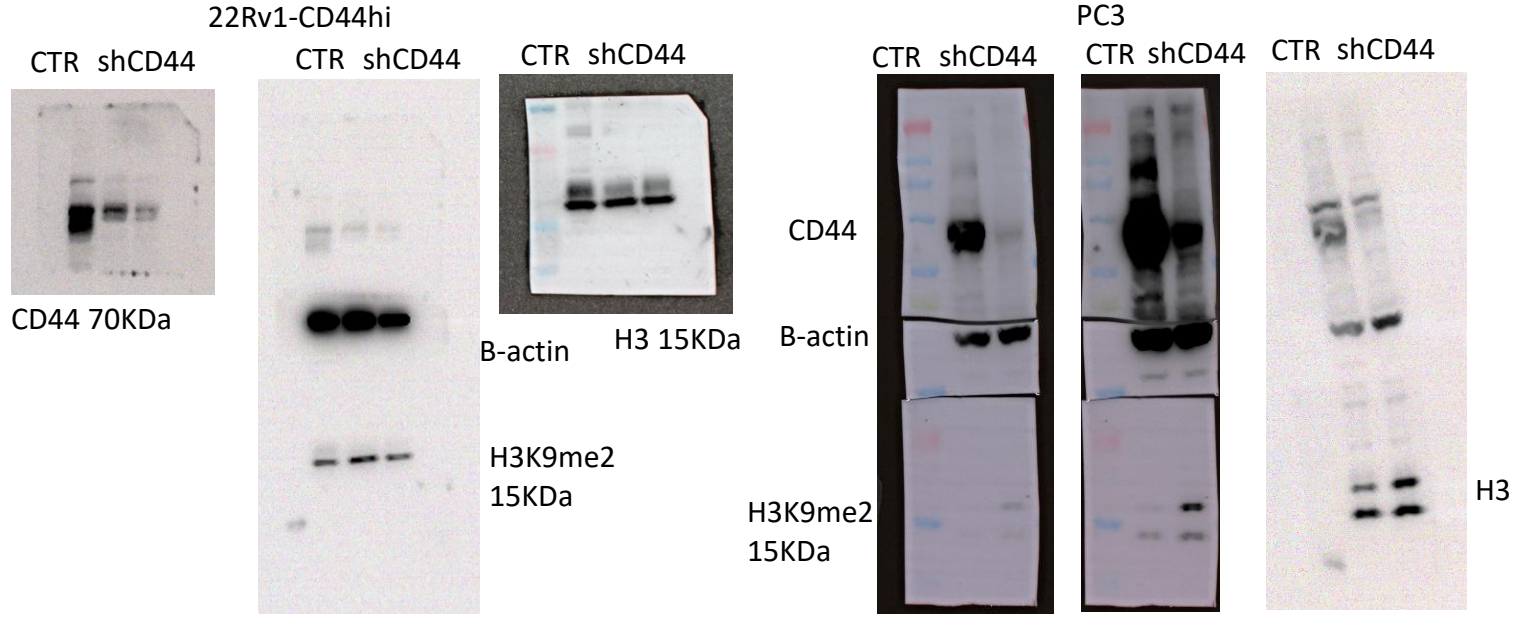



## Related to Fig.2F




## Related to Fig.2H

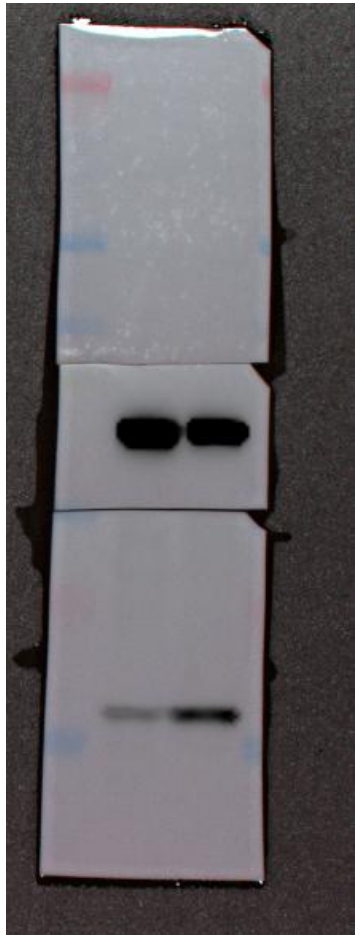


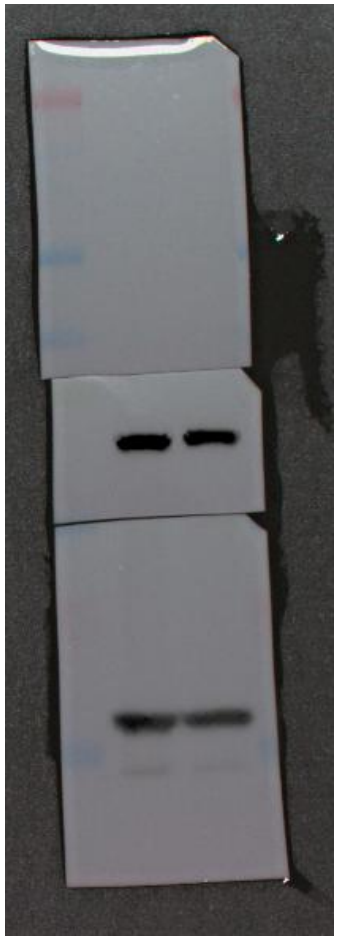
## Related to Fig.3E

22Rv1-CD44hi

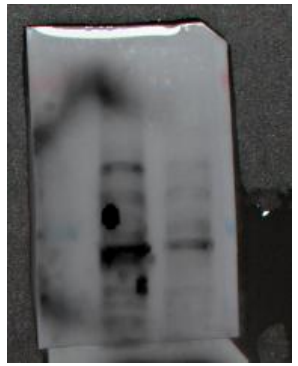
DMSO DFO



DMSO DFO



DMSO DFO



CD44 70KDa

B-actin 43KDa

H3K9me2
15KDa

H3 15KDa

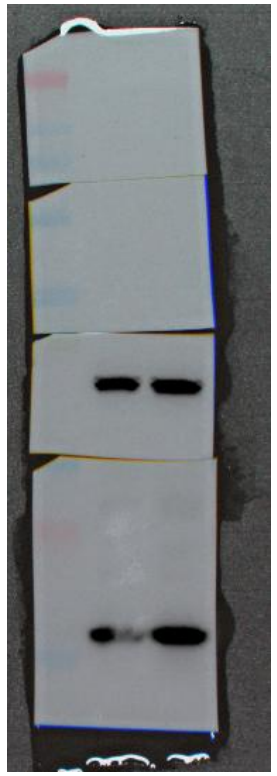
B-actin

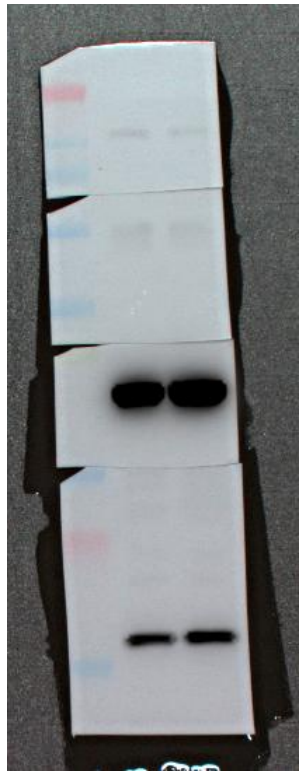
## Related to Fig.3H

22Rv1-CD44hi shCTR CD44hi shKDM3A

22Rv1-CD44hi shCTR CD44hi shKDM3A

22Rv1-CD44hi shCTR CD44hi shKDM3A







KDM3A 150KDa

CD44 70KDa

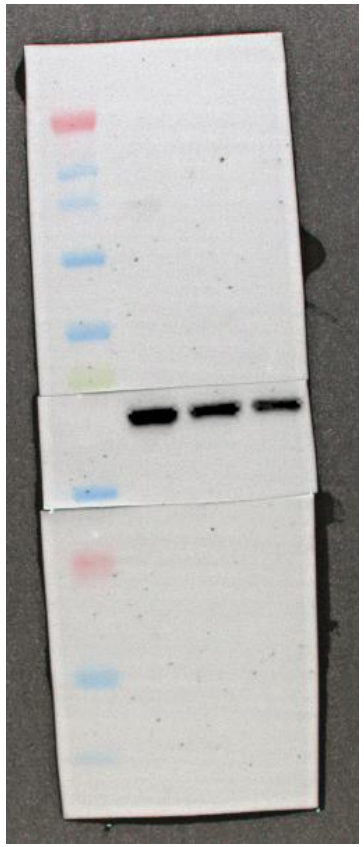
H3K9me2
15KDa

H3
15KDa

Related to Fig.4I

LAPC9

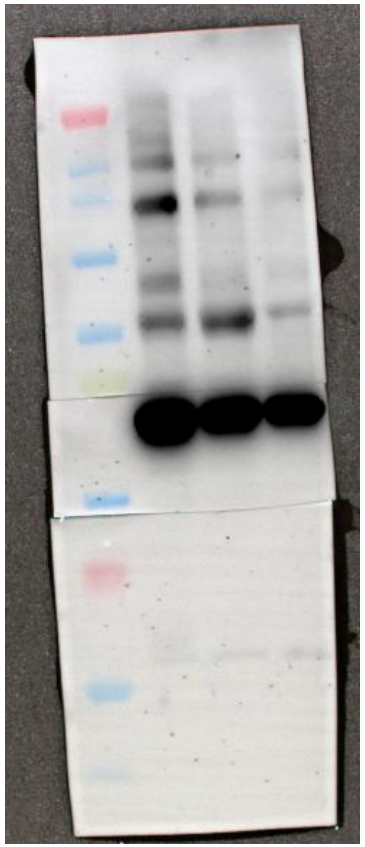
DMSO DFO CBA-1



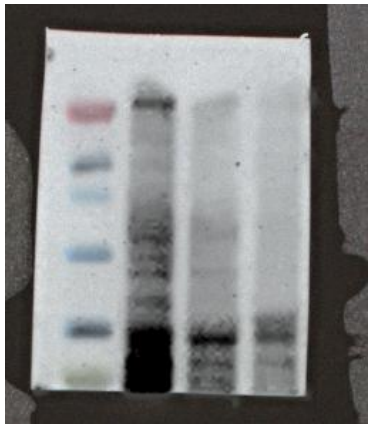
B-actin 43KDa

DMSO DFO CBA-1

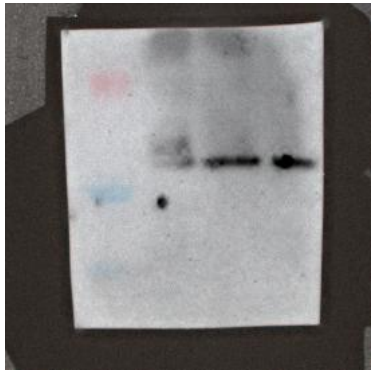
CD44v
110KDa



DMSO DFO CBA-1



C-MYC
55KDa



H3K9me2
15KDa

DMSO DFO CBA-1



H3
15KDa

Related to Fig.5C

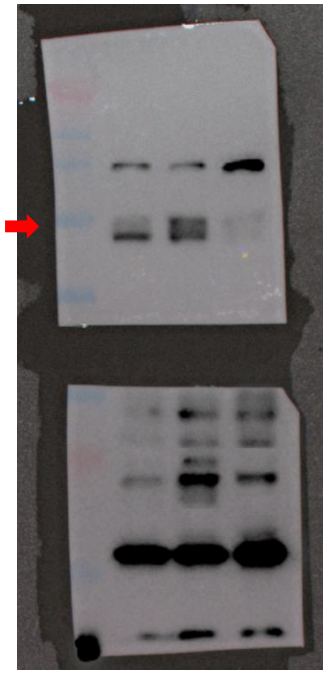
22Rv1-shCD44

DMSO Fe DFO



22Rv1-shCD44

DMSO Fe DFO



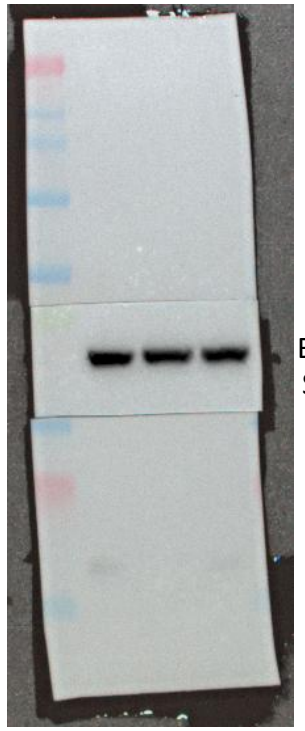
NRF2 90KDa

B-actin

FTL 30KDa

Related to Fig.5D

22RV1-CD44hi 22RV1-CD44low 22RV1-shCD44

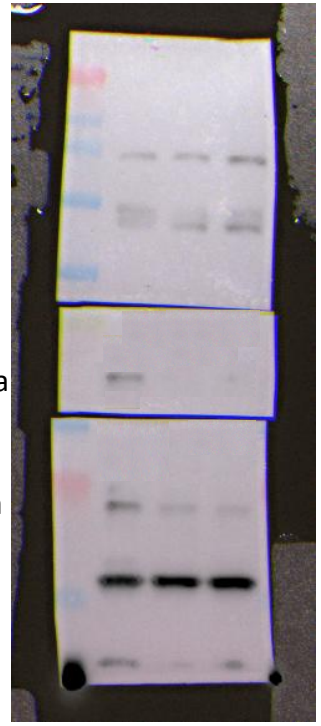


B-actin

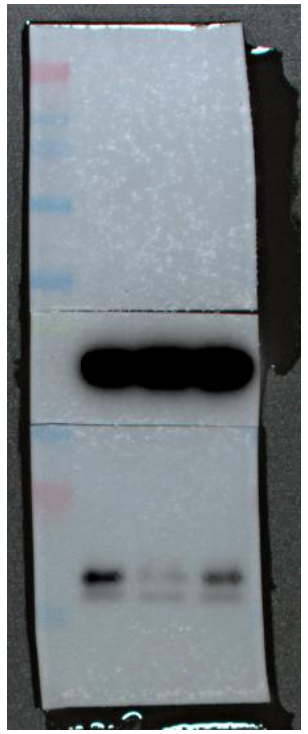
SLC7A11 40KDa

FTL 30KDa

22RV1-CD44hi 22RV1-CD44low 22RV1-shCD44

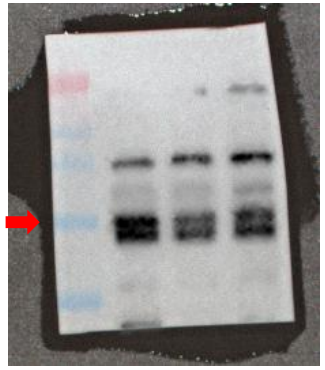


22RV1-CD44hi 22RV1-CD44low 22RV1-shCD44



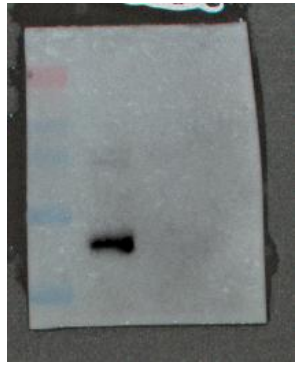
NRF2 90KDa

22RV1-CD44hi 22RV1-CD44low 22RV1-shCD44



GPX4 25KDa

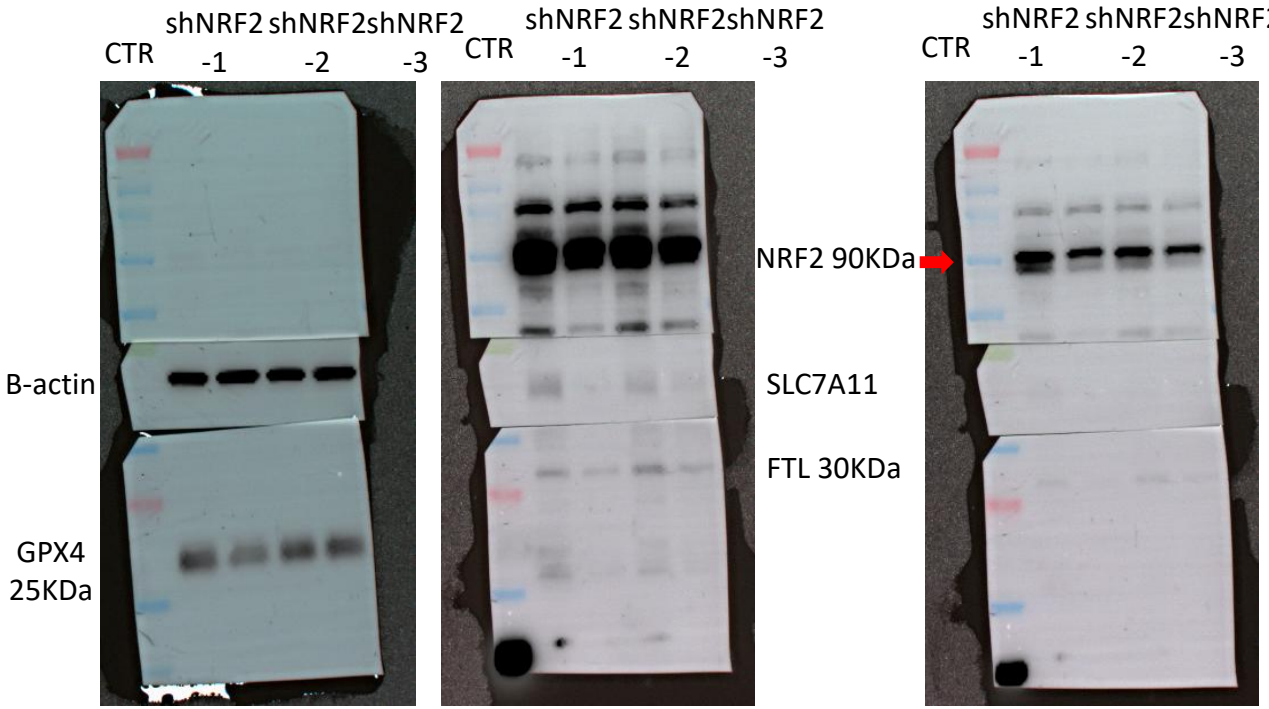
22RV1-CD44hi 22RV1-CD44low 22RV1-shCD44



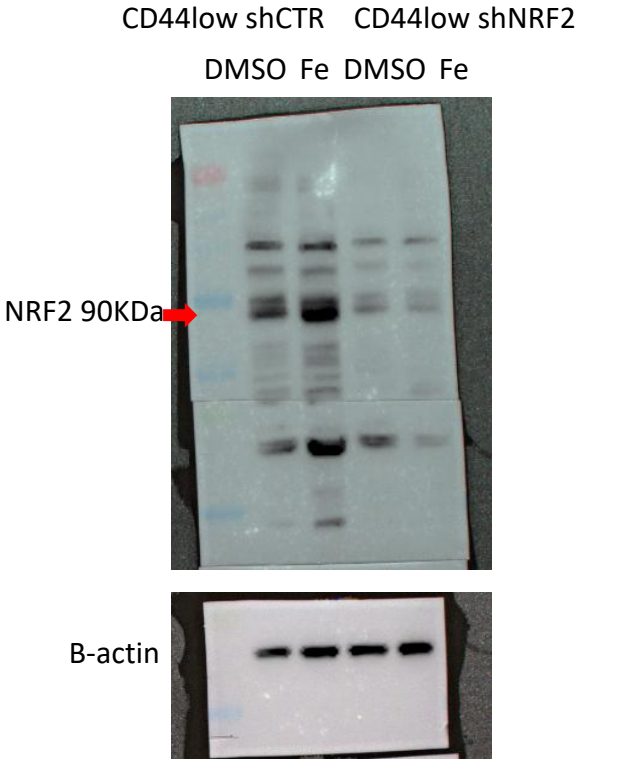
CD44s 70KDa

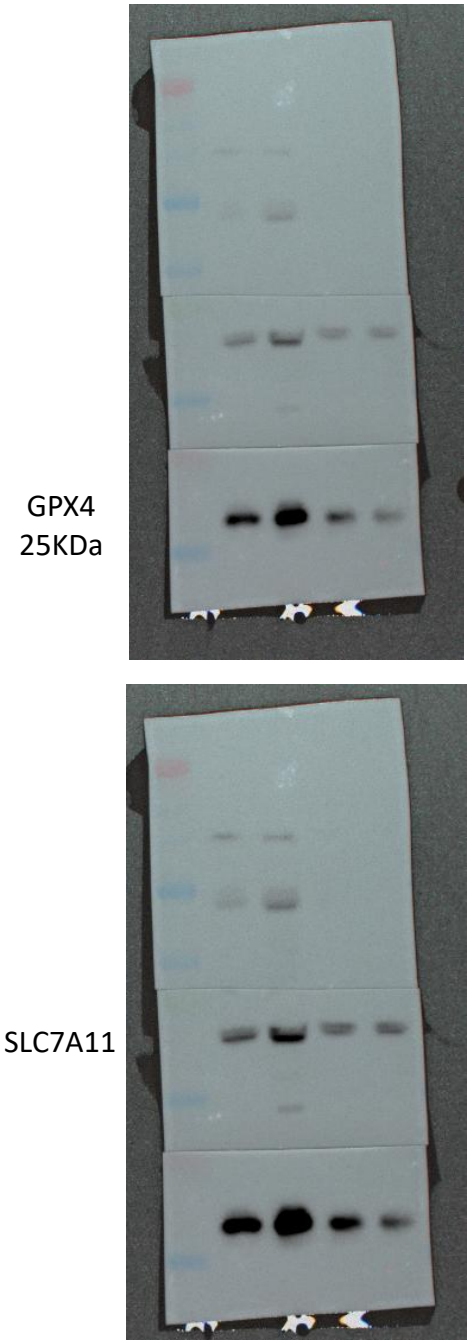
## Related to Fig.5E

22Rv1-CD44hi



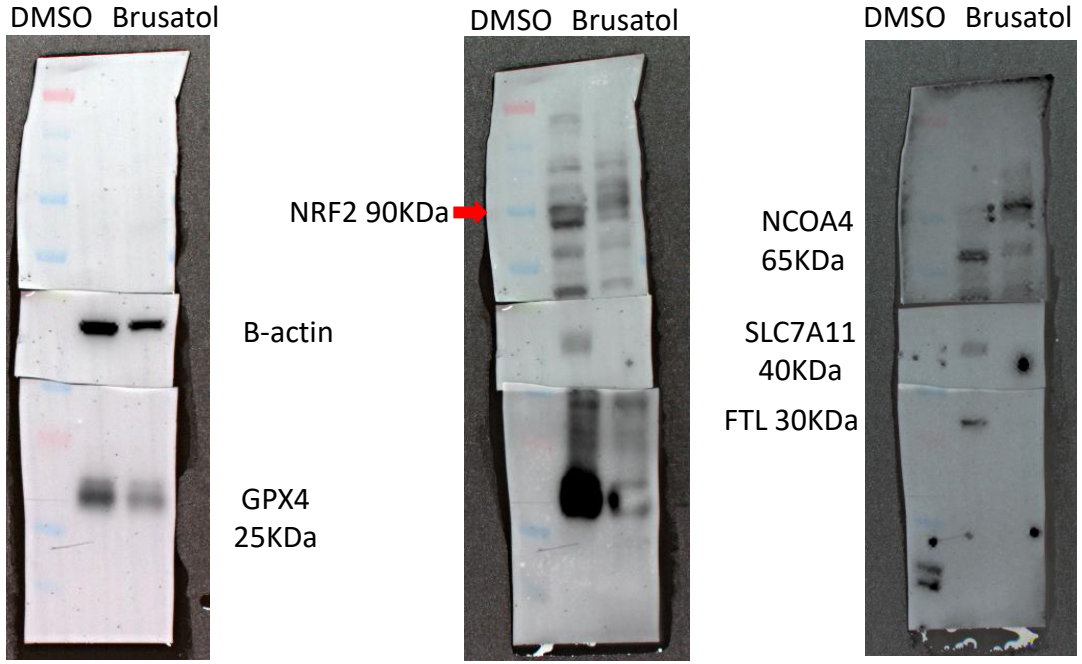

## Related to Fig.5F



Related to Fig.6F

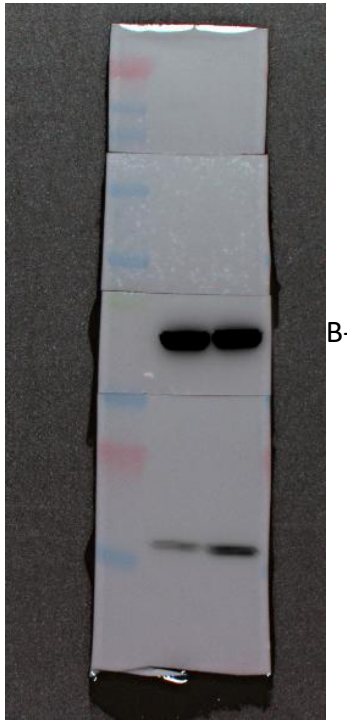
22Rv1-CD44hi



Related to Fig.8C

22Rv1-CD44hi

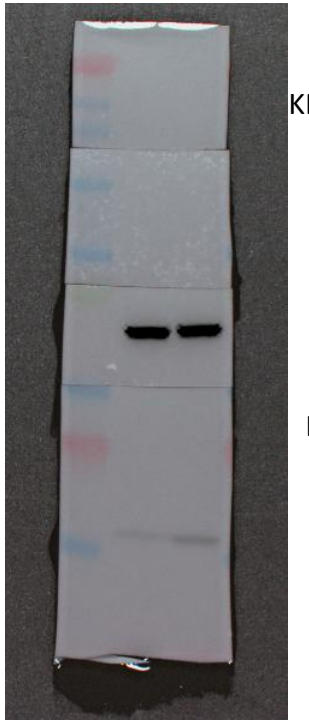
shCTR shKDM3A



H3K9me2
15KDa

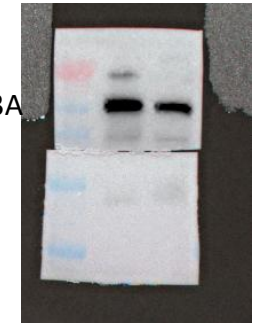
B-actin

shCTR shKDM3A

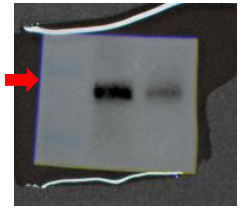


shCTR shKDM3A

KDM3A



NRF2

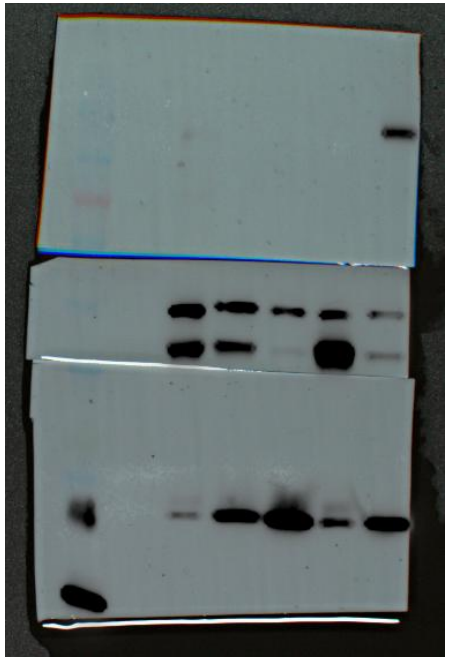




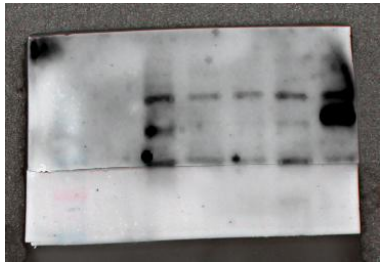
H3
15KDa

Related to Fig.8I

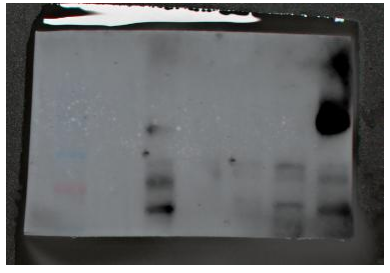
LAPC9 PM154 PCa16



KDM3A 150KDa

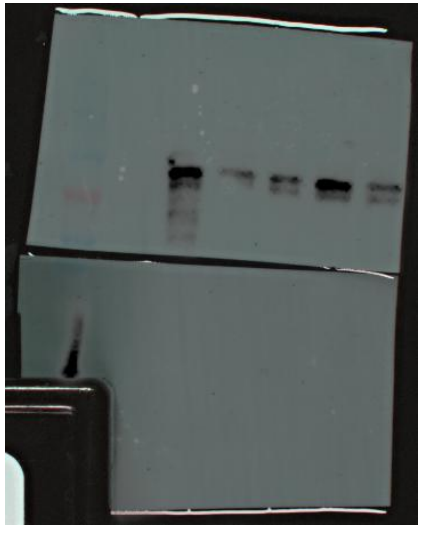


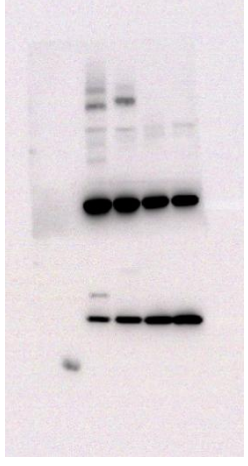
B-actin



CD44s 70KDa

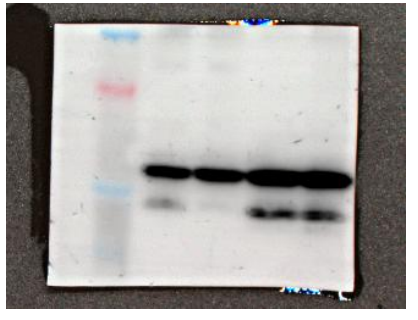
NRF2 90KDa





H3K9me2
15KDa

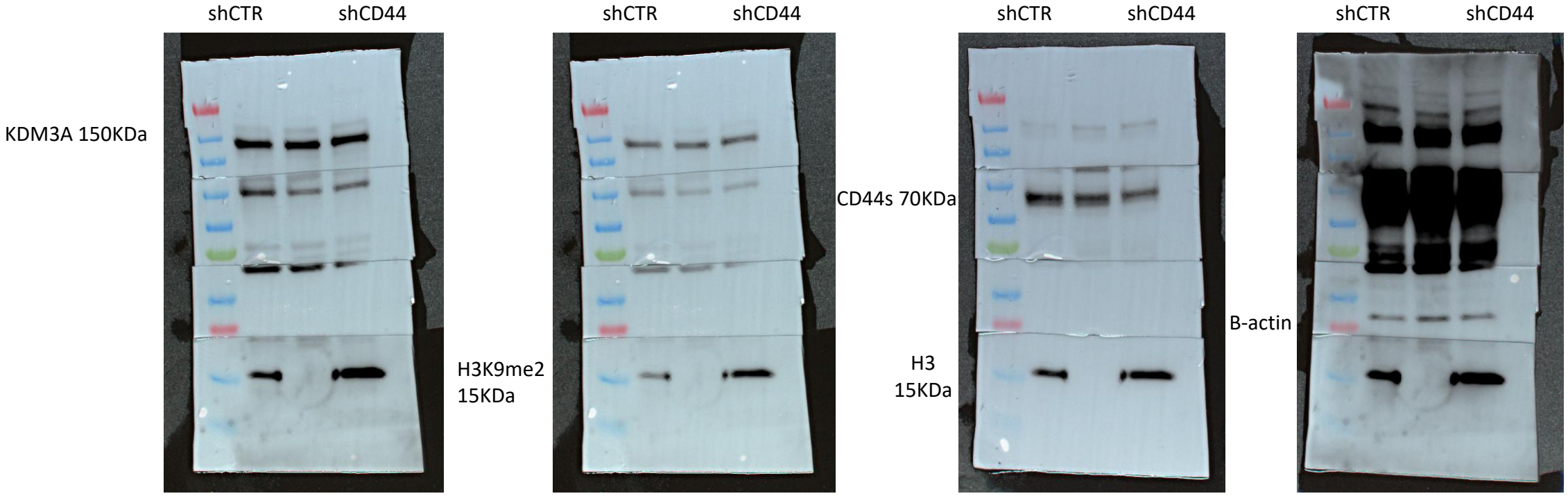
LAPC9 PM154 PCa16



H3
15KDa

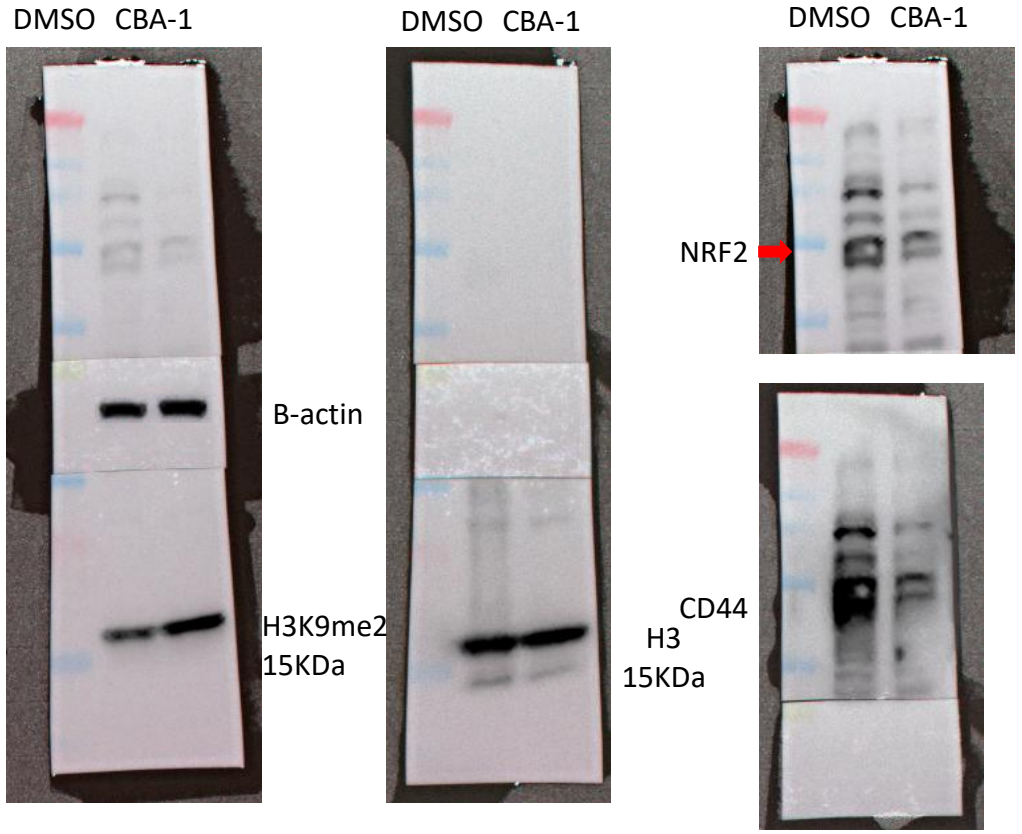
Related to Supplementary Fig.4D

22Rv1-CD44hi



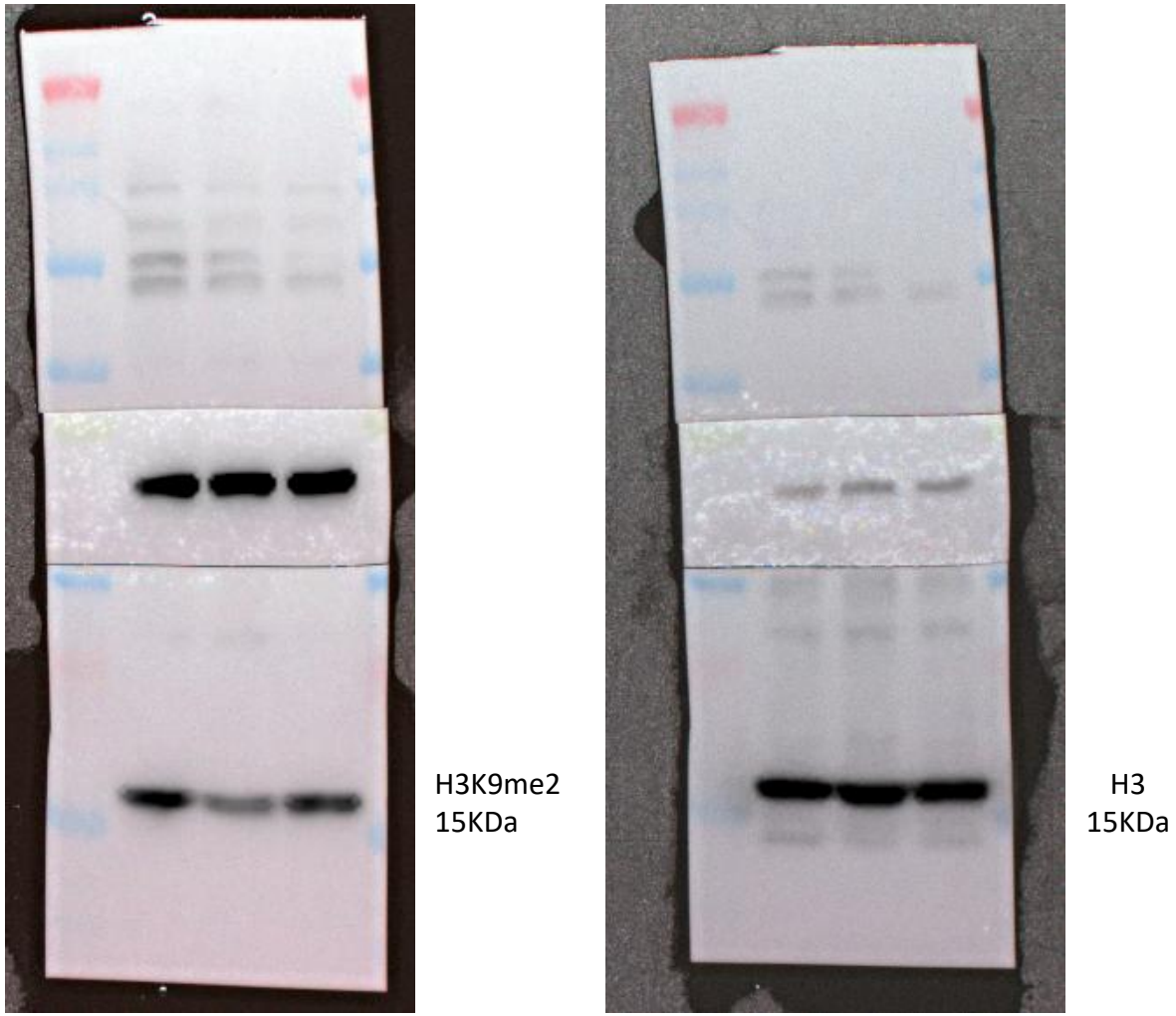
## Related to Supplementary Fig.4E and Fig 8F

22Rv1-CD44hi



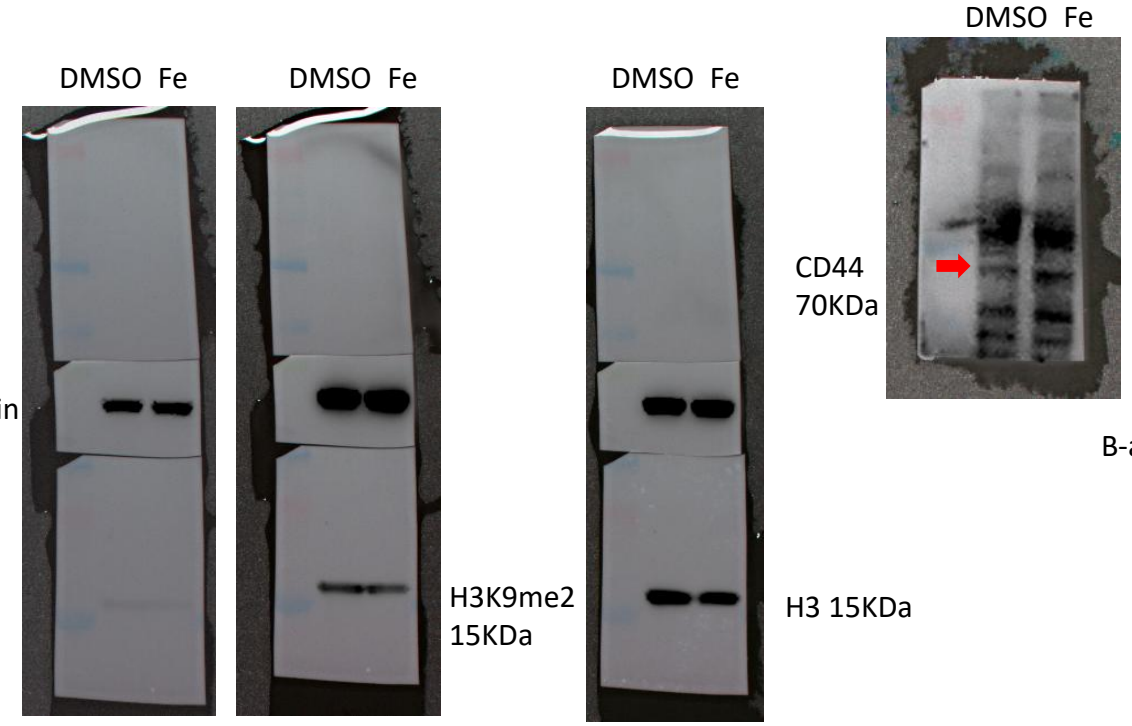

## Related to Supplementary Fig.4H

22Rv1-shCD44

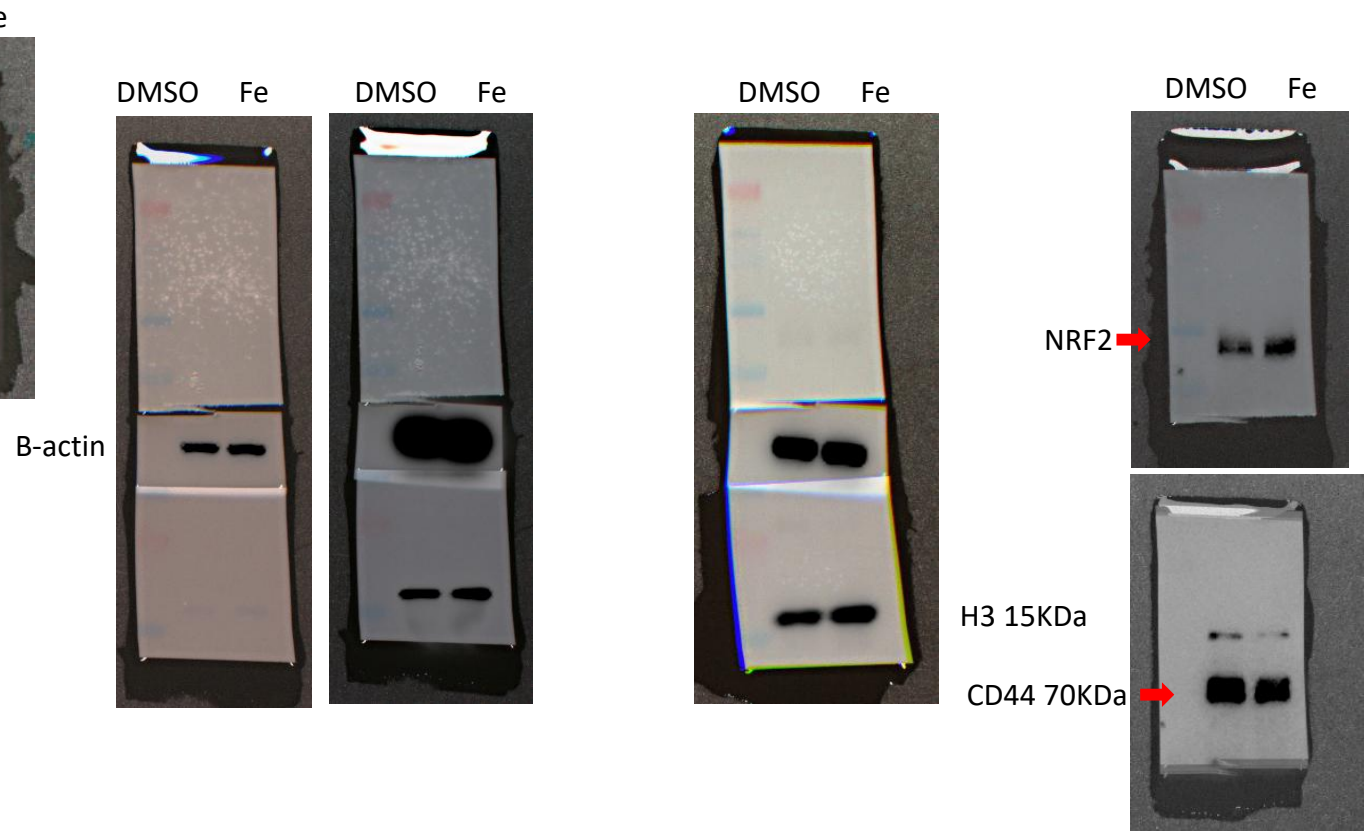


Related to Supplementary Fig.4I

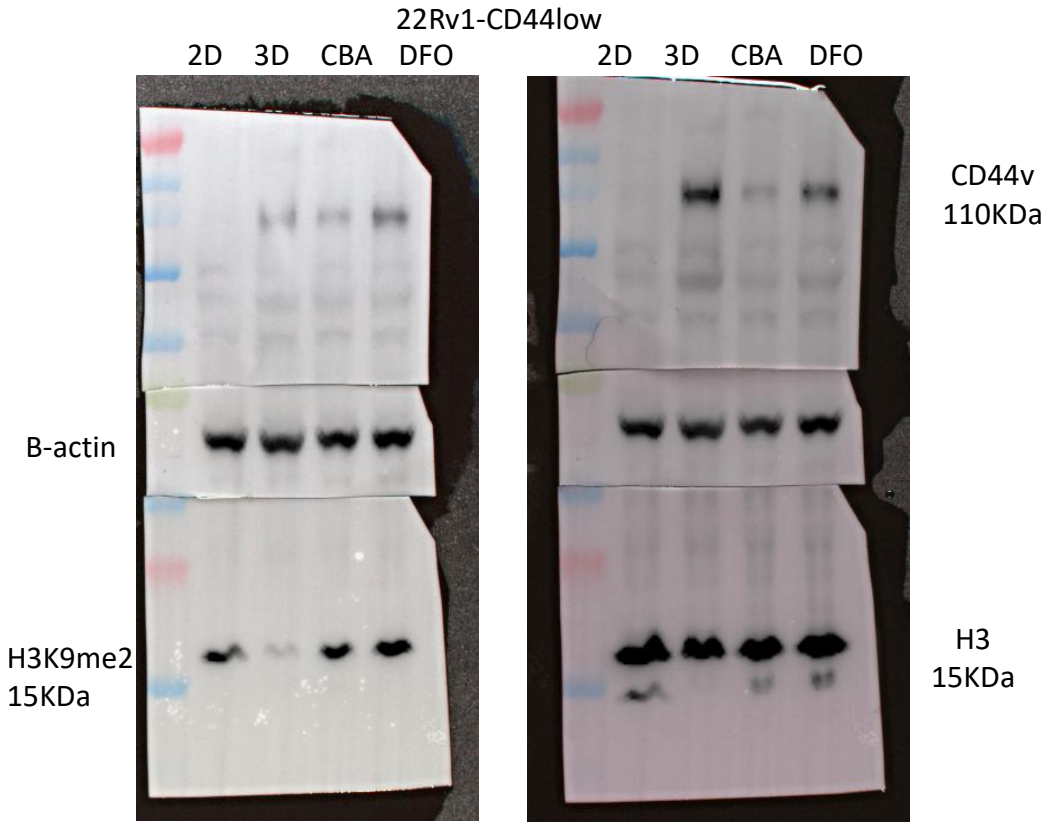
22Rv1-CD44hi shCTR




22Rv1-CD44hi shKDM3A



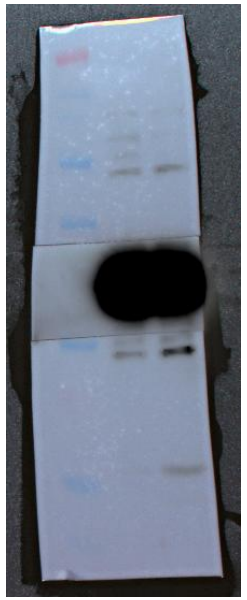
Related to Supplementary Fig.4J



## Related to Supplementary Fig.7E

22Rv1-CD44hi

DFO DMSO



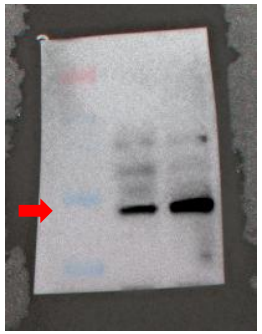
22Rv1-CD44hi

DFO DMSO



B-actin

FTL



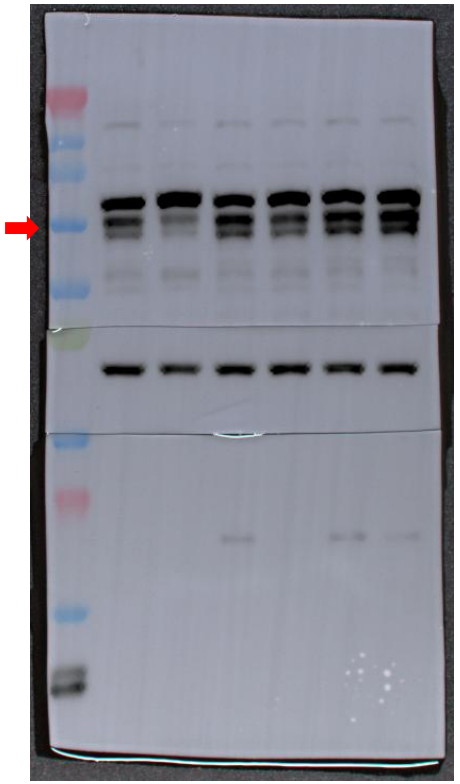
NRF2 90KDa

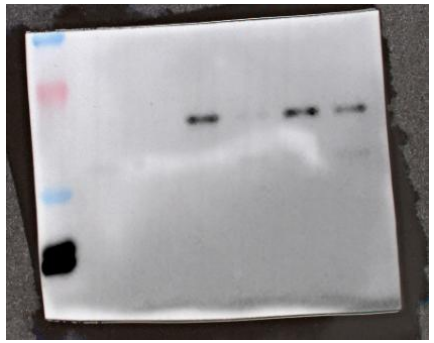
## Related to Supplementary Fig.7G

PC3-shCD44

DMSO DFO Fe Fe+DFO

NRF2 90KDa





FTL

30KDa

## Related to Supplementary Fig.7I

PC3

shCTR shCD44



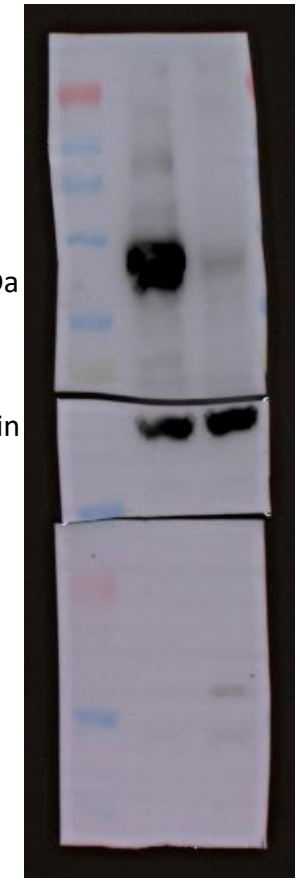
NRF2 90KDa

NRF2 90KDa

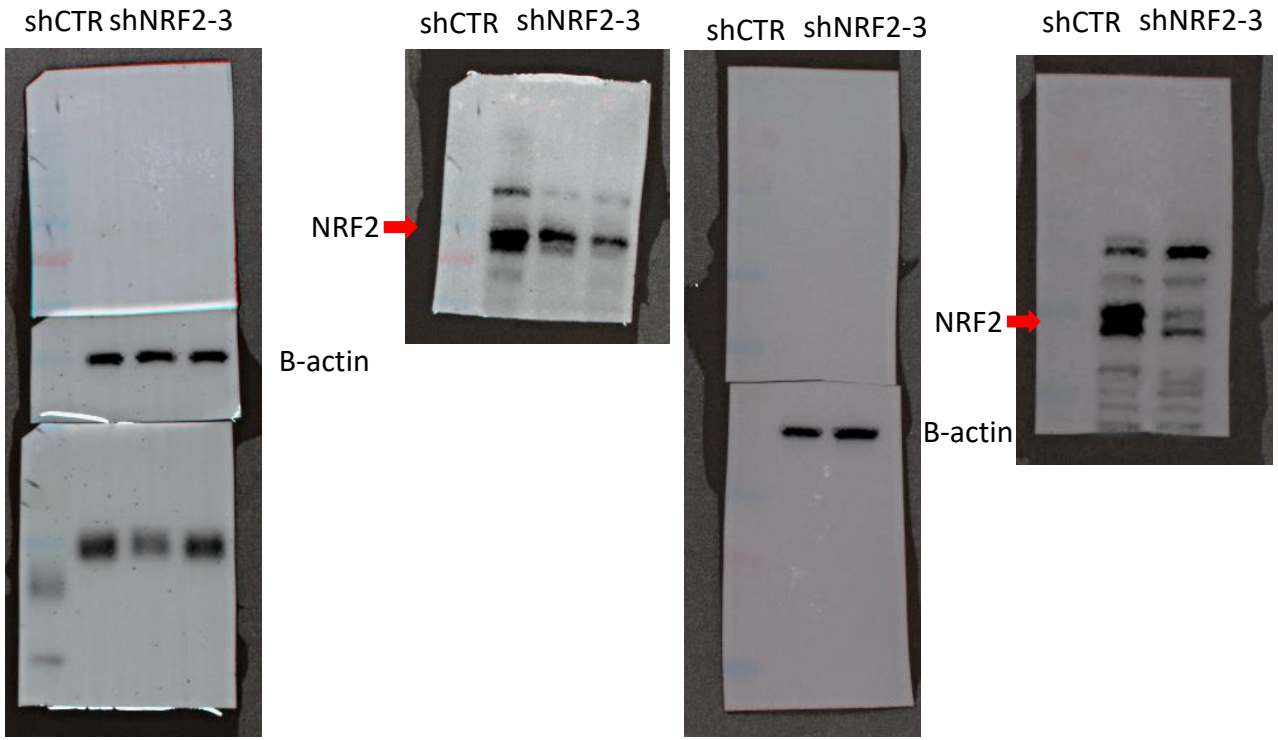
shCTR shCD44

CD44 70KDa

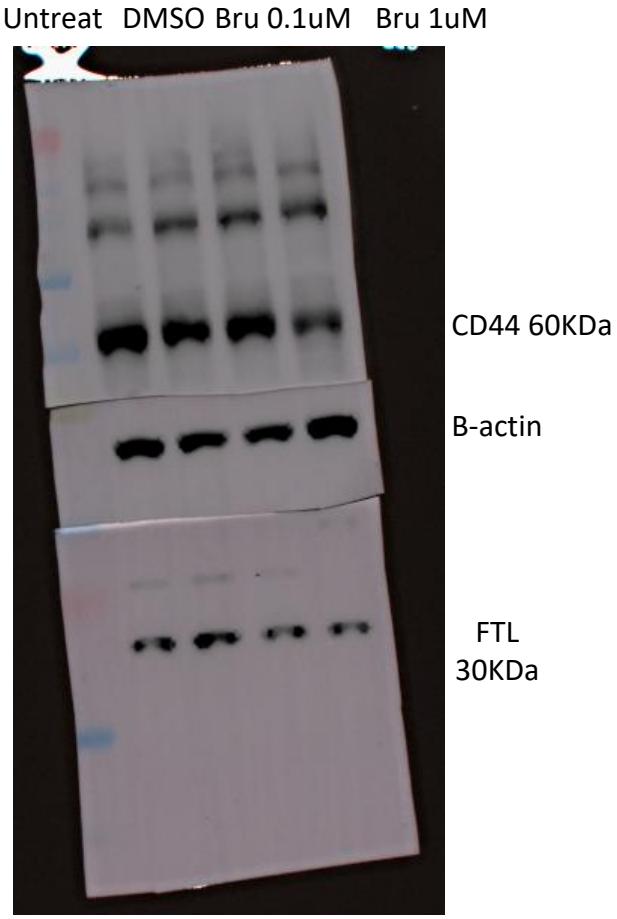
B-actin



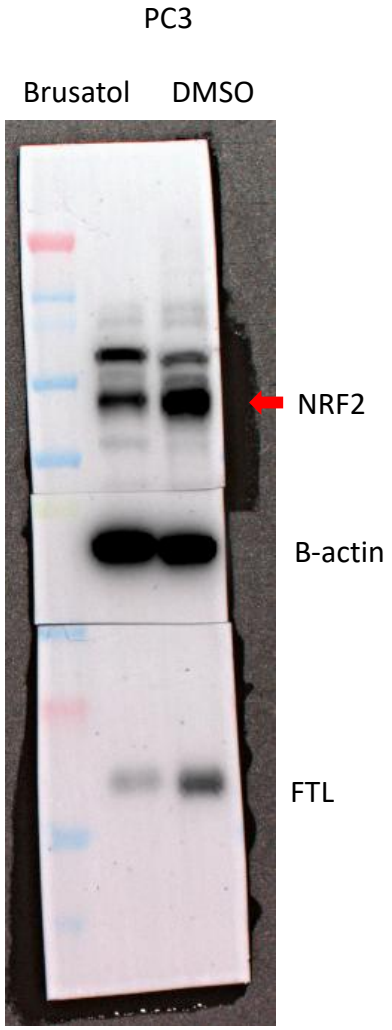
## Related to Supplementary Fig.8G



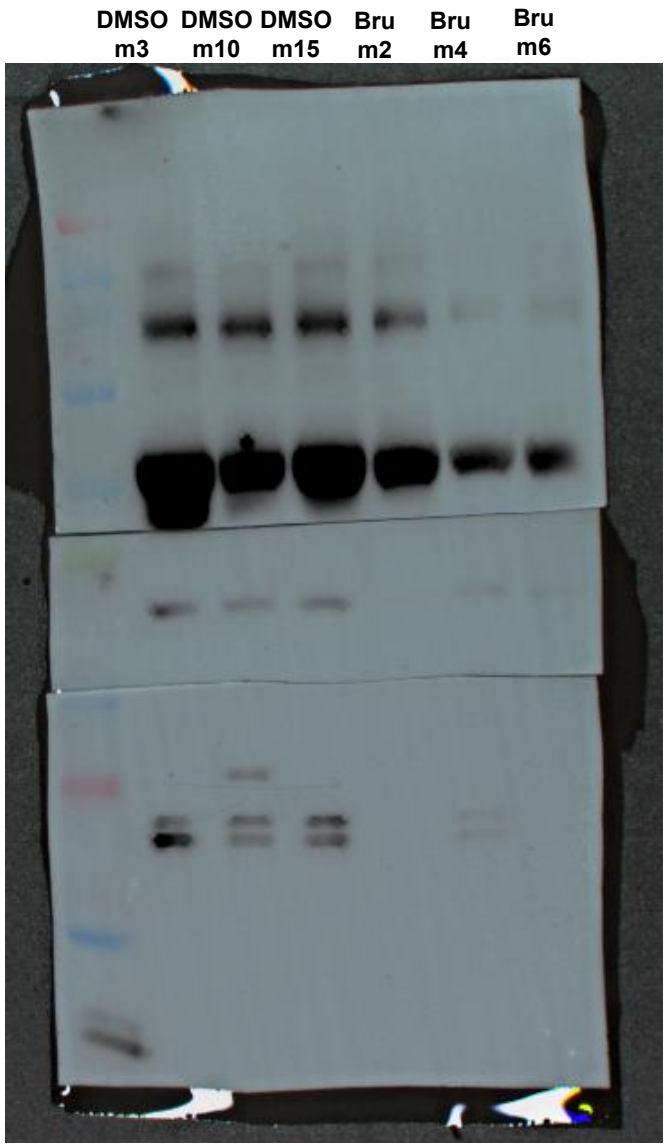

## Related to Supplementary Fig.9D




## Related to Supplementary Fig.9E



Related to Supplementary Fig.10B




CD44

FTL

Vinculin 117KDa

