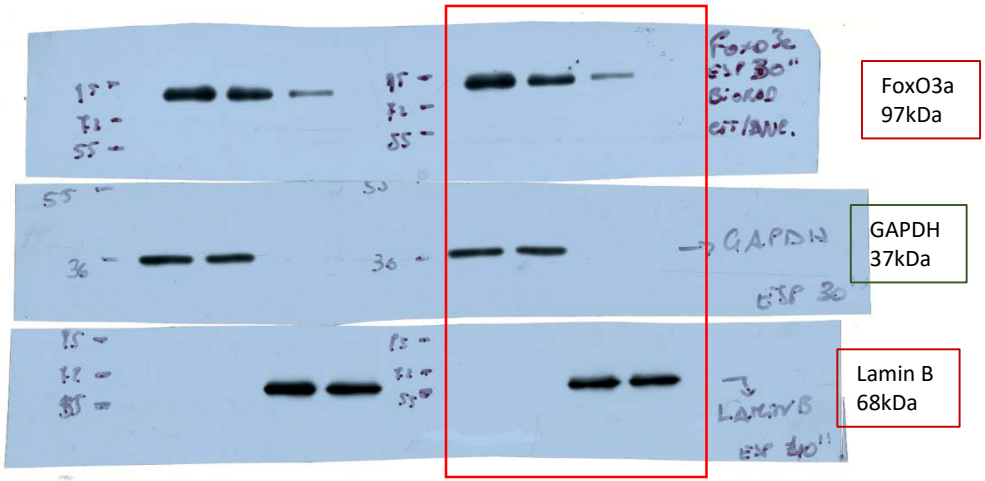
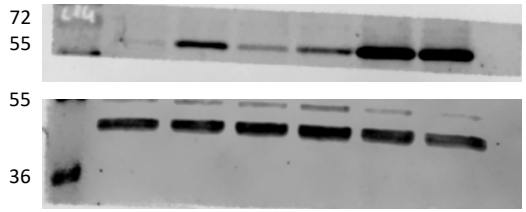
# FIGURE 1

## Panel B




| Lane | 1 | 2 | 3 | 4 |
|---|---|---|---|---|
| Foxo3a | 23 | 15 | 7 | 0 |
| GAPDH | 15 | 13 | | |
| Lamin B | | | 23 | 20 |
| Ratio | 1,5 | 1,1 | 0,3 | 0 |

# FIGURE 1 Panel D

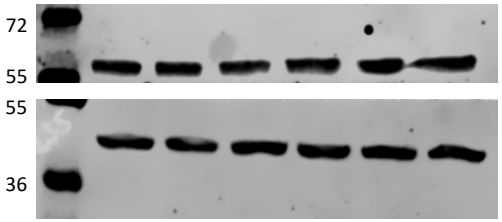



pAkt 60kDa

ACTIN
42kDa

| Lane | 1 | 2 | 3 | 4 | 5 | 6 |
|---|---|---|---|---|---|---|
| pAkt | 1 | 22 | 6 | 13 | 41 | 38 |
| Actin | 22 | 24 | 26 | 30 | 24 | 22 |
| Ratio | 0,04 | 0,91 | 0,23 | 0,43 | 1,70 | 1,72 |

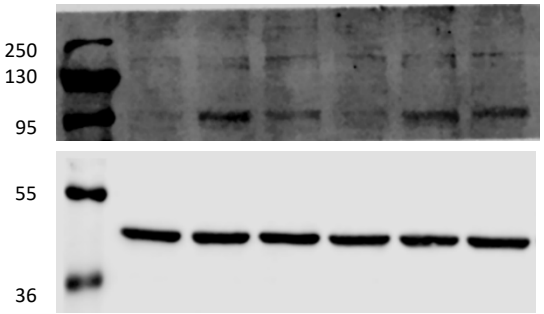
| Lane | 1 | 2 | 3 | 4 | 5 | 6 |
|---|---|---|---|---|---|---|
| pAkt | 0,04 | 0,91 | 0,23 | 0,43 | 1,70 | 1,72 |
| Akt | 1,05 | 1,21 | 0,86 | 0,98 | 1,07 | 0,98 |
| Ratio | 0,04 | 0,75 | 0,27 | 0,44 | 1,59 | 1,76 |




Akt 60kDa

ACTIN
42kDa

| Lane | 1 | 2 | 3 | 4 | 5 | 6 |
|---|---|---|---|---|---|---|
| Akt | 40 | 41 | 38 | 43 | 46 | 43 |
| Actin | 38 | 34 | 44 | 44 | 43 | 44 |
| Ratio | 1,05 | 1,21 | 0,86 | 0,98 | 1,07 | 0,98 |



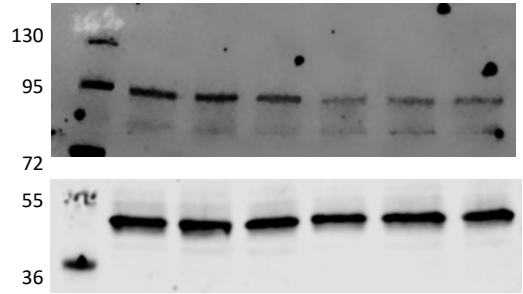

pFoxO3a
(Akt-dip)
97kDa

ACTIN
42kDa

This Actin was used in figure as representative of each Actin evaluated

| Lane | 1 | 2 | 3 | 4 | 5 | 6 |
|---|---|---|---|---|---|---|
| pFoxO3a | 2 | 23 | 9 | 5 | 20 | 21 |
| Actin | 28 | 31 | 28 | 26 | 27 | 29 |
| Ratio | 0,07 | 0,74 | 0,32 | 0,19 | 0,74 | 0,72 |

| Lane | 1 | 2 | 3 | 4 | 5 | 6 |
|---|---|---|---|---|---|---|
| pFoxO3a | 0,07 | 0,74 | 0,32 | 0,19 | 0,74 | 0,72 |
| FoxO3a | 0,55 | 0,48 | 0,37 | 0,12 | 0,21 | 0,17 |
| Ratio | 0,13 | 1,54 | 0,86 | 1,58 | 3,52 | 4,24 |

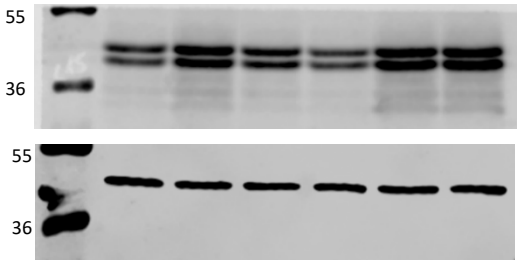



FoxO3a
97kDa

ACTIN
42kDa

| Lane | 1 | 2 | 3 | 4 | 5 | 6 |
|---|---|---|---|---|---|---|
| Foxo3a | 16 | 14 | 11 | 3 | 6 | 5 |
| Actin | 29 | 29 | 30 | 26 | 29 | 30 |
| Ratio | 0,55 | 0,48 | 0,37 | 0,12 | 0,21 | 0,17 |

# FIGURE 1 Panel E

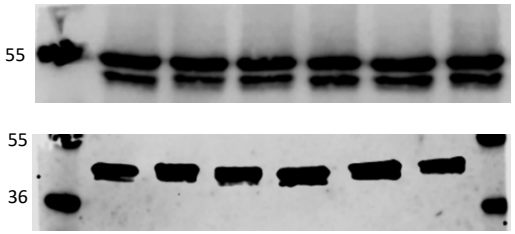



pMAPK 42-44kDa

ACTIN 42kDa

This Actin was used in figure as representative of each Actin evaluated

| Lane | 1 | 2 | 3 | 4 | 5 | 6 |
|---|---|---|---|---|---|---|
| pMAPK | 14 | 28 | 17 | 11 | 30 | 29 |
| Actin | 14 | 12 | 12 | 14 | 13 | 14 |
| Ratio | 0,8 | 2,3 | 1,4 | 0,8 | 2,3 | 2,1 |

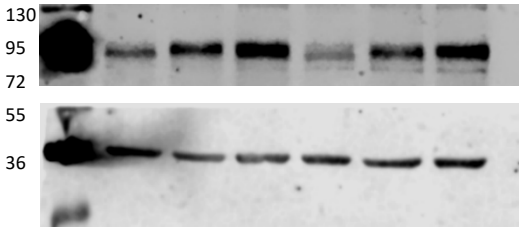



MAPK 42-44kDa

ACTIN 42kDa

| Lane | 1 | 2 | 3 | 4 | 5 | 6 |
|---|---|---|---|---|---|---|
| MAPK | 28 | 29 | 27 | 28 | 30 | 28 |
| Actin | 19 | 20 | 20 | 21 | 20 | 20 |
| Ratio | 1,5 | 1,4 | 1,3 | 1,3 | 1,5 | 1,4 |

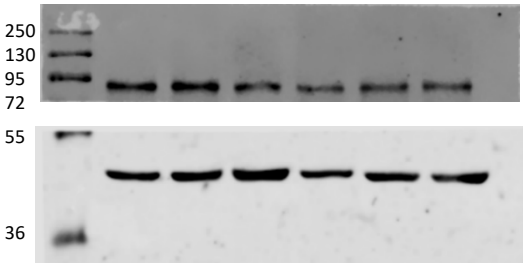
| Lane | 1 | 2 | 3 | 4 | 5 | 6 |
|---|---|---|---|---|---|---|
| Ratio pMAPK | 0,8 | 2,3 | 1,4 | 0,8 | 2,3 | 2,1 |
| Ratio MAPK | 1,5 | 1,4 | 1,3 | 1,3 | 1,5 | 1,4 |
| Ratio | 0,5 | 1,6 | 1,0 | 0,6 | 1,5 | 1,5 |




pFoxO3a (MAP-dip) 97kDa

GAPDH 37kDa

| Lane | 1 | 2 | 3 | 4 | 5 | 6 |
|---|---|---|---|---|---|---|
| pFoxO3a | 14 | 22 | 29 | 8 | 20 | 27 |
| Actin | 17 | 14 | 15 | 15 | 14 | 14 |
| Ratio | 0,8 | 1,6 | 1,9 | 0,5 | 1,4 | 1,9 |



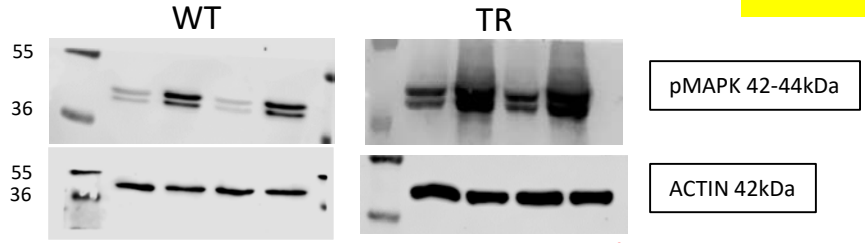

FoxO3a 97kDa

ACTIN 42kDa

| Lane | 1 | 2 | 3 | 4 | 5 | 6 |
|---|---|---|---|---|---|---|
| FoxO3a | 18 | 20 | 12 | 10 | 12 | 11 |
| Actin | 15 | 15 | 17 | 14 | 15 | 16 |
| Ratio | 1,2 | 1,3 | 0,7 | 0,7 | 0,8 | 0,7 |

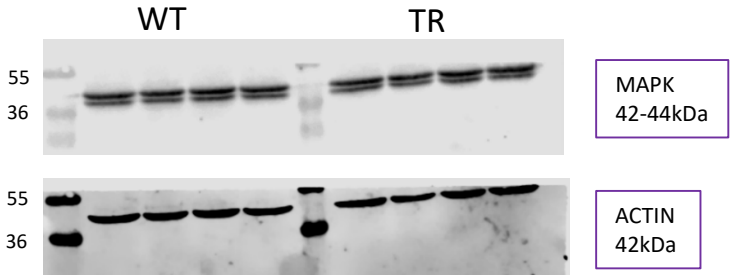
| Lane | 1 | 2 | 3 | 4 | 5 | 6 |
|---|---|---|---|---|---|---|
| Ratio pFoxO3a | 0,8 | 1,6 | 1,9 | 0,5 | 1,4 | 1,9 |
| Ratio FoxO3a | 1,2 | 1,3 | 0,7 | 0,7 | 0,8 | 0,7 |
| Ratio | 0,7 | 1,2 | 2,7 | 0,7 | 1,8 | 2,7 |

# FIGURE 1 Panel G

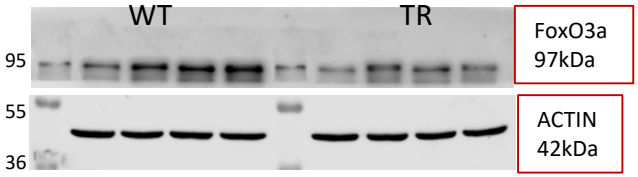



This Actin was used in figure as representative of each Actin evaluated

| Lane | 1 | 2 | 3 | 4 | | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|---|---|
| pMAPK | 5 | 26 | 3 | 37 | | 41 | 123 | 40 | 117 |
| Actin | 21 | 17 | 18 | 17 | | 26 | 24 | 26 | 25 |
| Ratio | 0,2 | 1,5 | 0,2 | 2,1 | | 1,6 | 5,1 | 1,5 | 4,7 |

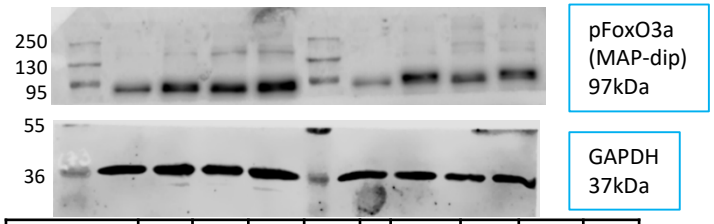



| Lane | 1 | 2 | 3 | 4 | | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|---|---|
| MAPK | 29 | 29 | 31 | 30 | | 26 | 24 | 28 | 30 |
| Actin | 20 | 20 | 22 | 21 | | 17 | 15 | 17 | 16 |
| Ratio | 1,4 | 1,4 | 1,4 | 1,4 | | 1,5 | 1,6 | 1,6 | 1,8 |

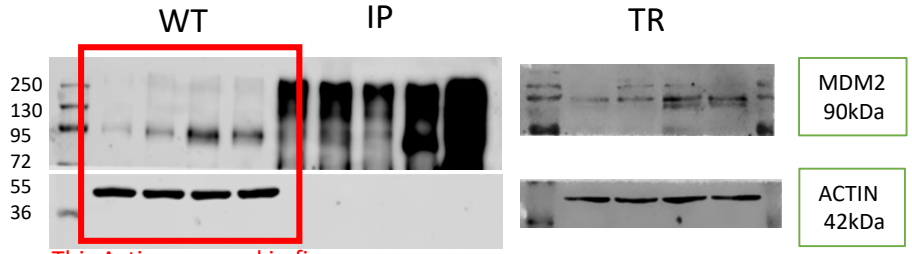



| Lane | 1 | 2 | 3 | 4 | | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|---|---|
| Ratio pMAP | 0,2 | 1,5 | 0,2 | 2,1 | | 1,6 | 5,1 | 1,5 | 4,7 |
| Ratio MAP | 1,4 | 1,4 | 1,4 | 1,4 | | 1,5 | 1,6 | 1,6 | 1,8 |
| Ratio | 0,1 | 1,1 | 0,1 | 1,5 | | 1,1 | 3,2 | 0,9 | 2,6 |

| Lane | 1 | 2 | 3 | 4 | | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|---|---|
| FoxO3a | 10 | 14 | 16 | 20 | | 7 | 10 | 9 | 9 |
| Actin | 22 | 20 | 21 | 20 | | 22 | 20 | 20 | 20 |
| Ratio | 0,5 | 0,7 | 0,8 | 1,0 | | 0,3 | 0,5 | 0,5 | 0,5 |




| Lane | 1 | 2 | 3 | 4 | | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|---|---|
| pFoxO3a | 15 | 27 | 29 | 33 | | 8 | 27 | 18 | 23 |
| Actin | 28 | 31 | 29 | 31 | | 21 | 22 | 16 | 16 |
| Ratio | 0,5 | 0,9 | 1 | 1,1 | | 0,4 | 1,2 | 1,1 | 1,5 |

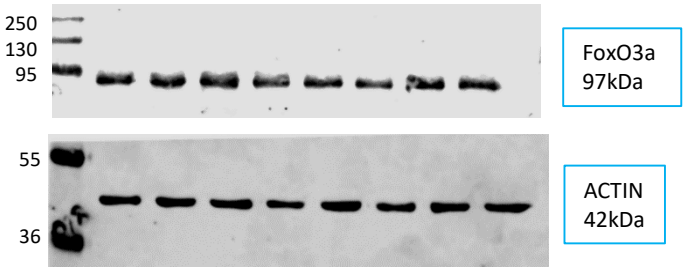



This Actin was used in figure as representative of each Actin evaluated

| Lane | 1 | 2 | 3 | 4 | | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|---|---|
| MDM2 | 3 | 7 | 16 | 14 | | 6 | 8 | 14 | 13 |
| Actin | 21 | 18 | 20 | 17 | | 12 | 11 | 11 | 12 |
| Ratio | 0,1 | 0,4 | 0,8 | 0,8 | | 0,5 | 0,7 | 1,3 | 1,1 |

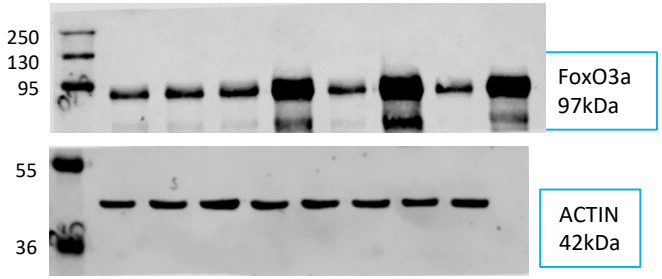
# FIGURE 2

## Panel B



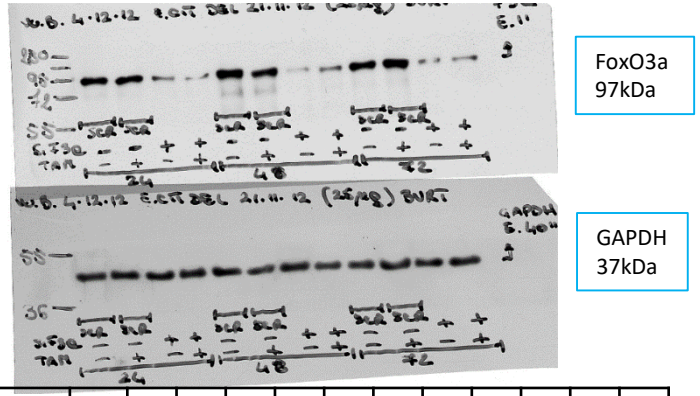

| Lane | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|---|
| FoxO3a | 15 | 17 | 25 | 22 | 14 | 13 | 18 | 16 |
| Actin | 22 | 23 | 23 | 18 | 24 | 20 | 22 | 23 |
| Ratio | 0,7 | 0,7 | 1,1 | 1,2 | 0,6 | 0,7 | 0,8 | 0,7 |

## Panel D




| Lane | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|---|
| FoxO3a | 10 | 11 | 9 | 24 | 11 | 32 | 10 | 27 |
| Actin | 9 | 10 | 14 | 11 | 11 | 10 | 9 | 11 |
| Ratio | 1,1 | 1,1 | 0,6 | 2,2 | 1,0 | 3,2 | 1,1 | 2,5 |

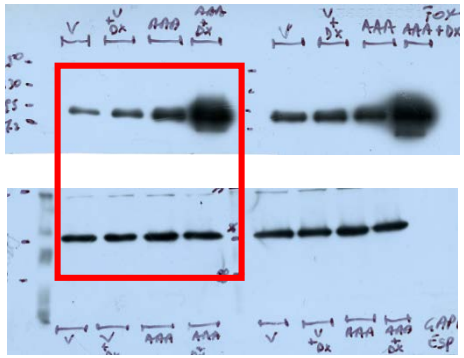
## Panel C




| Lane | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FoxO3a | 25 | 26 | 12 | 12 | 27 | 28 | 14 | 13 | 26 | 27 | 11 | 15 |
| Actin | 27 | 26 | 26 | 26 | 27 | 25 | 25 | 29 | 29 | 25 | 27 | 26 |
| Ratio | 0,9 | 1,0 | 0,5 | 0,5 | 1,0 | 1,1 | 0,6 | 0,4 | 0,9 | 1,1 | 0,4 | 0,6 |

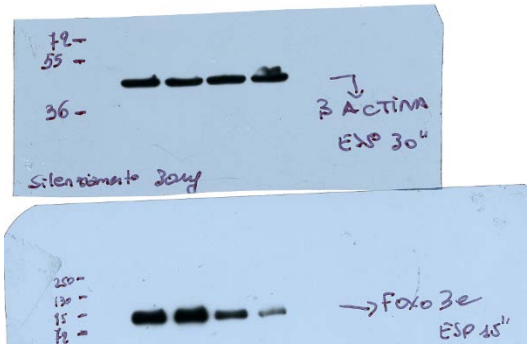
# FIGURE 2

## Panel I




| Lane | 1 | 2 | 3 | 4 |
|---|---|---|---|---|
| Foxo3a | 8 | 13 | 105 | 787 |
| GAPDH | 17 | 18 | 22 | 20 |
| Ratio | 0,5 | 0,7 | 4,8 | 39 |

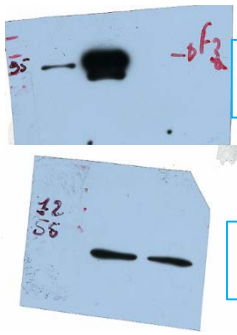
## Panel K



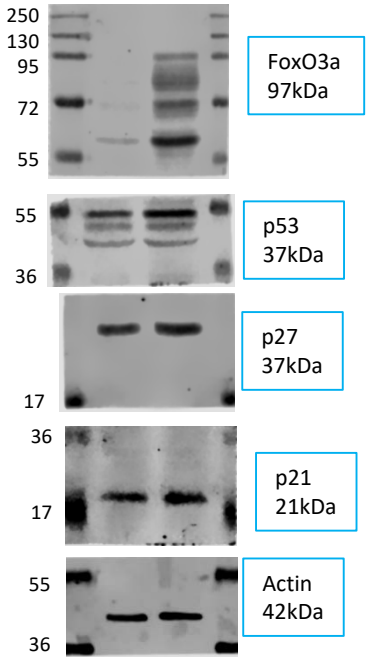

| Lane | 1 | 2 | 3 | 4 |
|---|---|---|---|---|
| Foxo3a | 30 | 52 | 16 | 8 |
| Actin | 18 | 17 | 19 | 22 |
| Ratio | 1,2 | 1,1 | 0 | 0 |

# FIGURE 2

## Panel O

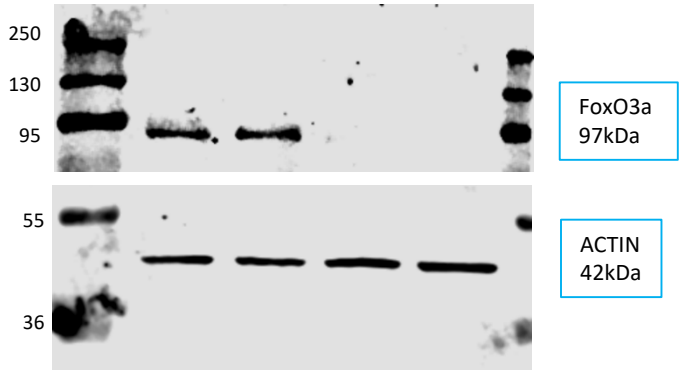



| Lane | 1 | 2 |
|---|---|---|
| Foxo3a | 6 | 81 |
| GAPDH | 8 | 13 |
| Ratio | 0,7 | 6,2 |




| Lane | 1 | 2 |
|---|---|---|
| FoxO3a | 0,9 | 26 |
| p53 | 43 | 66 |
| p27 | 43 | 62 |
| p21 | 47 | 75 |
| Actin | 79 | 82 |

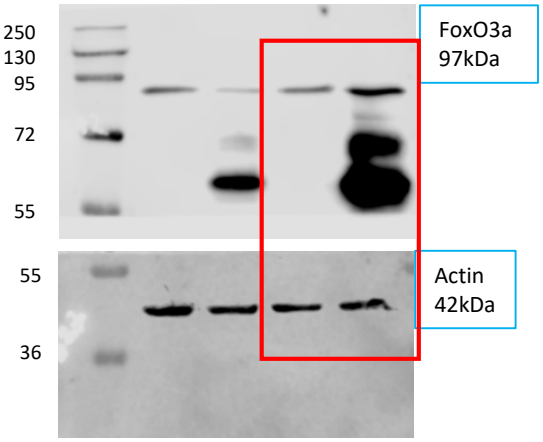
## Panel P




| Lane | 1 | 2 | 3 | 4 |
|---|---|---|---|---|
| Foxo3a | 19 | 17 | 0 | 0 |
| Actin | 16 | 15 | 19 | 19 |
| Ratio | 1,2 | 1,1 | 0 | 0 |

# FIGURE 4

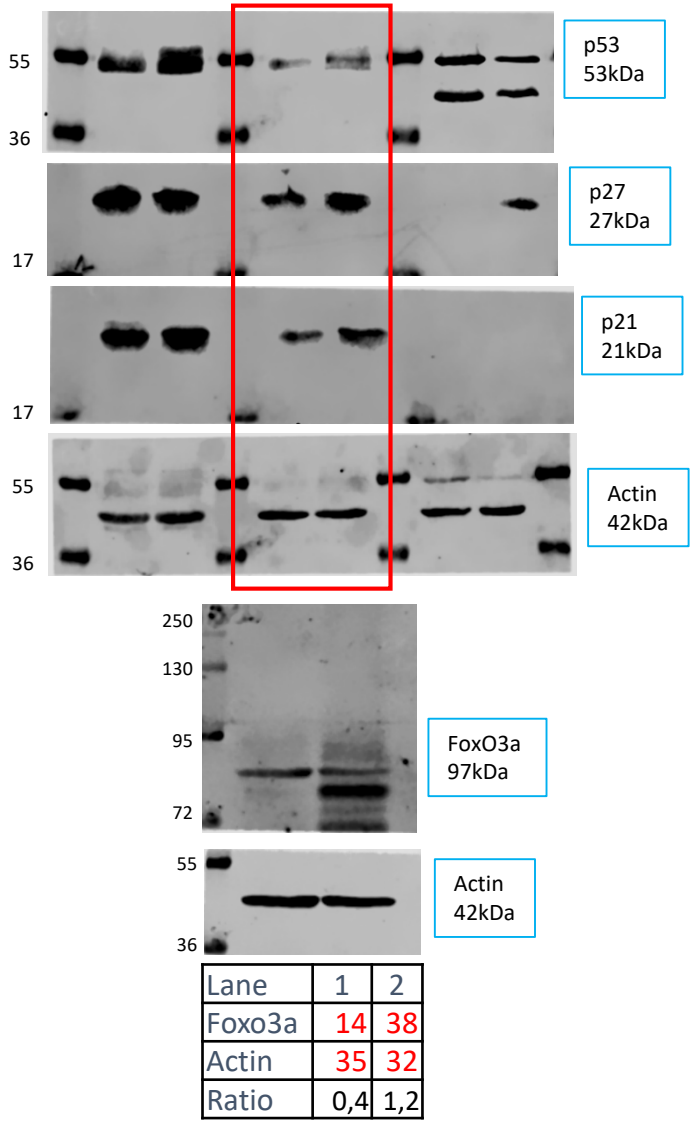
## Panel E




| Lane | 1 | 2 |
|---|---|---|
| Foxo3a | 17 | 30 |
| Actin | 34 | 29 |
| Ratio | 0,5 | 1,0 |

## Panel F

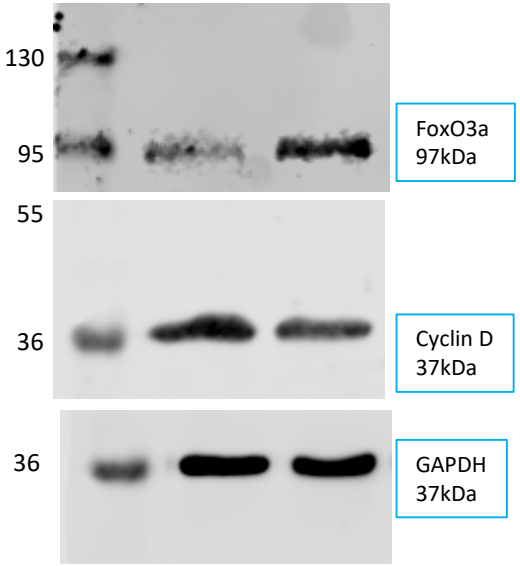
| Lane | 1 | 2 |
|---|---|---|
| P53 | 19 | 37 |
| P27 | 19 | 30 |
| p21 | 15 | 25 |
| Actin | 15 | 16 |
| Ratio p53 | 1,2 | 2,3 |
| Ratio p27 | 1,2 | 1,8 |
| Ratio p21 | 1 | 1,6 |




| Lane | 1 | 2 |
|---|---|---|
| Foxo3a | 14 | 38 |
| Actin | 35 | 32 |
| Ratio | 0,4 | 1,2 |

# FIGURE 6

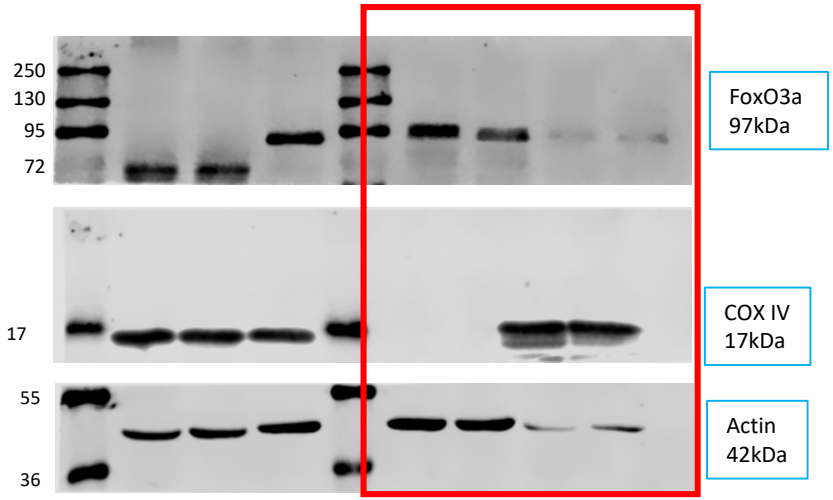
## Panel F




| Lane | 1 | 2 |
|---|---|---|
| Foxo3a | 25 | 52 |
| Cyclin D | 70 | 40 |
| GAPDH | 70 | 66 |
| Ratio Fox | 0,4 | 0,8 |
| Ratio Cyc | 1 | 0,6 |

# FIGURE S1

## Panel C

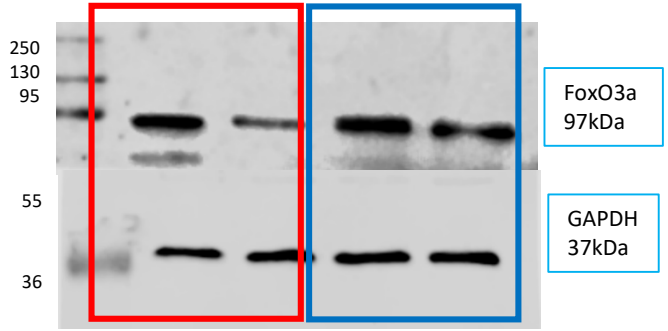



| Lane | 1 | 2 | 3 | 4 |
|---|---|---|---|---|
| Foxo3a | 17 | 10 | 1,2 | 1,3 |
| COX IV | 0 | 0 | 22 | 19 |
| Actin | 19 | 17 | 2,1 | 4,4 |
| Ratio | 0,9 | 0,6 | 0,05 | 0,07 |

# FIGURE S2

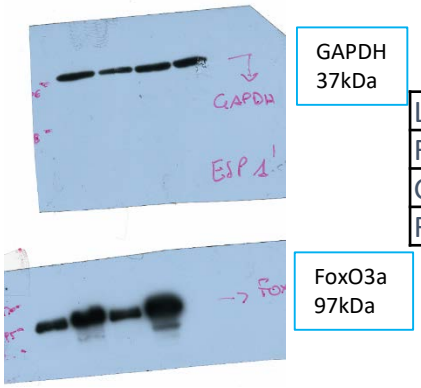
## Panel A

## Panel D



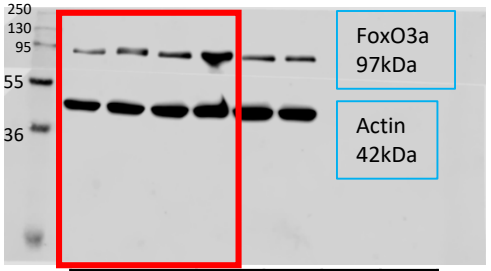

| Lane | 1 | 2 | 3 | 4 |
|---|---|---|---|---|
| Foxo3a | 58 | 18 | 57 | 28 |
| GAPDH | 19 | 23 | 23 | 23 |
| Ratio | 3,1 | 0,7 | 2,5 | 1,1 |

## Panel C



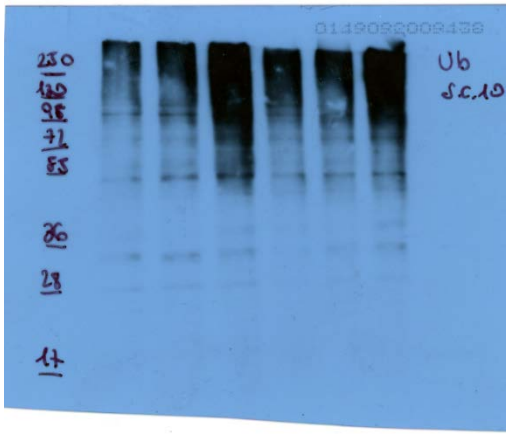

| Lane | 1 | 2 | 3 | 4 |
|---|---|---|---|---|
| Foxo3a | 20 | 38 | 20 | 54 |
| GAPDH | 16 | 10 | 17 | 16 |
| Ratio | 1,3 | 3,8 | 1,2 | 3,4 |

## Panel F

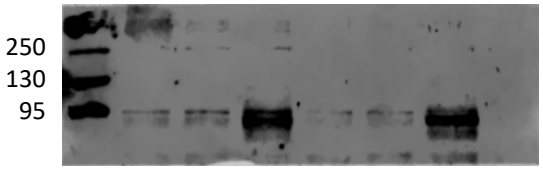



| Lane | 1 | 2 | 3 | 4 |
|---|---|---|---|---|
| Foxo3a | 21 | 39 | 57 | 92 |
| Actin | 62 | 56 | 59 | 68 |
| Ratio | 0,34 | 0,7 | 0,97 | 1,35 |

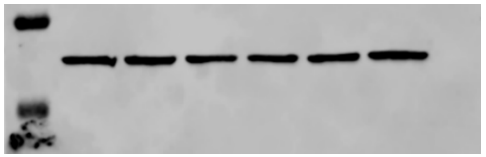
# FIGURE S4




IB: Ub
97kDa

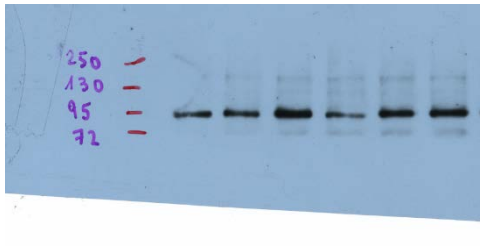



MDM-2
90kDa

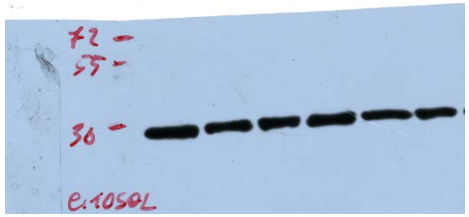



Actin
42kDa

| Lane | 1 | 2 | 3 | 4 | 5 | 6 |
|---|---|---|---|---|---|---|
| Ub | 22 | 43 | 89 | 52 | 56 | 77 |
| MDM-2 | 1,3 | 2,3 | 12 | 0,4 | 1,1 | 12 |
| Actin | 16 | 17 | 15 | 16 | 16 | 17 |
| Ratio Ub | 1,4 | 2,5 | 5,9 | 3,2 | 3,5 | 4,5 |
| Ratio MDM-2 | 0,2 | 0,1 | 0,8 | 0,02 | 0,06 | 0,7 |




FoxO3a
97kDa




GAPDH
37kDa

| Lane | 1 | 2 | 3 | 4 | 5 | 6 |
|---|---|---|---|---|---|---|
| FoxO3a | 8,7 | 10 | 19,7 | 6,8 | 13 | 15 |
| GAPDH | 25 | 17 | 22 | 26 | 20 | 20 |
| Ratio | 0,3 | 0,6 | 0,9 | 0,2 | 0,6 | 0,7 |