Original data of Figure 2 b :

|  | U87+NC |  |  | U87+EIF4A3-KD |  |  |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: |
| Day1 | 0.212 | 0.222 | 0.215 | 0.205 | 0.209 | 0.207 |
| Day2 | 0.384 | 0.387 | 0.398 | 0.347 | 0.344 | 0.339 |
| Day3 | 0.523 | 0.594 | 0.592 | 0.456 | 0.428 | 0.421 |
| Day4 | 0.910 | 0.915 | 0.959 | 0.723 | 0.706 | 0.759 |
| Day5 | 1.543 | 1.499 | 1.404 | 1.270 | 1.246 | 1.286 |



|  | T98G+NC |  |  | T98G+EIF4A3-KD |  |  |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: |
| Day1 | 0.359 | 0.373 | 0.368 | 0.379 | 0.398 | 0.387 |
| Day2 | 0.719 | 0.716 | 0.772 | 0.671 | 0.612 | 0.652 |
| Day3 | 1.461 | 1.447 | 1.480 | 1.213 | 1.243 | 1.257 |
| Day4 | 2.089 | 2.019 | 2.095 | 1.824 | 1.860 | 1.790 |
| Day5 | 2.875 | 2.880 | 2.875 | 2.572 | 2.555 | 2.580 |



Original data of Figure 5a:

\left.|  |  |  |  | U251-MG-EIF4A3- |  |  |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: |
| OE+DAPT |  |  |  |  |  |  |$\right]$



|  |  |  |  | A172-EIF4A3- |  |  |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: |
| OE+DAPT |  |  |  |  |  |  |



Original data of Figure S1b:

|  | U251-MG+NC |  |  | U251-MG+EIF4A3-OE |  |  |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: |
| Day1 | 0.290 | 0.282 | 0.295 | 0.294 | 0.273 | 0.281 |
| Day2 | 0.307 | 0.302 | 0.312 | 0.325 | 0.349 | 0.336 |
| Day3 | 0.353 | 0.364 | 0.363 | 0.414 | 0.437 | 0.421 |
| Day4 | 0.473 | 0.453 | 0.434 | 0.575 | 0.548 | 0.535 |
| Day5 | 0.522 | 0.527 | 0.527 | 0.811 | 0.811 | 0.774 |



|  | A172+ NC |  |  | A172+EIF4A3-OE |  |  |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: |
| Day1 | 0.237 | 0.238 | 0.243 | 0.257 | 0.250 | 0.254 |
| Day2 | 0.333 | 0.305 | 0.329 | 0.383 | 0.383 | 0.384 |
| Day3 | 0.489 | 0.498 | 0.504 | 0.596 | 0.627 | 0.622 |
| Day4 | 0.797 | 0.803 | 0.814 | 1.019 | 1.102 | 1.004 |
| Day5 | 1.531 | 1.508 | 1.632 | 1.810 | 1.858 | 1.825 |



Figure 2a-U87, IB: EIF4A3:


Figure $2 \mathrm{a}-\mathrm{T98g}$, IB: EIF4A3:


Figure 2a-U87, IB: Actin


Figure $2 \mathrm{a}-\mathrm{T98g}$, IB: Actin


Figure 4a-A172-p-STAT3


Figure 4a-U251-p-STAT3


Figure 4a-U87-p-STAT3


Figure 4a-T98G-p-STAT3


Figure $4 \mathrm{a}-\mathrm{A} 172-$ STAT3


Figure 4a-U251-STAT3


Figure 4a-U87-STAT3


Figure 4a-T98G-STAT3


Figure $4 \mathrm{a}-\mathrm{A} 172-\mathrm{p}-\mathrm{H} 3$


Figure 4a-U251-p-H3


Figure 4a-U87-p-H3


Figure 4a-T98G-p-H3


Figure 4a-A172-H3


Figure 4a-U251-H3


Figure 4a-U87-H3


Figure 4a-T98G-H3


Figure 4a-A172-hes1


Figure 4a-U251-hes1


Figure 4a-U87-hes1

Figure 4a-T98G-hes1

T98G IB : hes 1
NC EIF4A3+sh

Figure 4a-A172-Notch1


Figure 4a-U251-Notch1


Figure 4a-U87-Notch1


Figure 4a-T98G-Notch1


Figure 4a-A172-actin


Figure 4a-U251-actin


Figure 4a-U87-Actin


Figure 4a-T98G-Actin


Figure S1aU251, IB: EIF4A3


Figure S1a A172, IB: EIF4A3


Figure S1a-A172-U251, IB: Actin


Figure 5s, IB: EIF4A3


Figure 5s, IB: Actin


