

Supplementary Figures

Article title: Proteomic identification and functional characterisation of nucleolar protein POP1 in anaplastic thyroid cancer

Journal: Cellular Oncology

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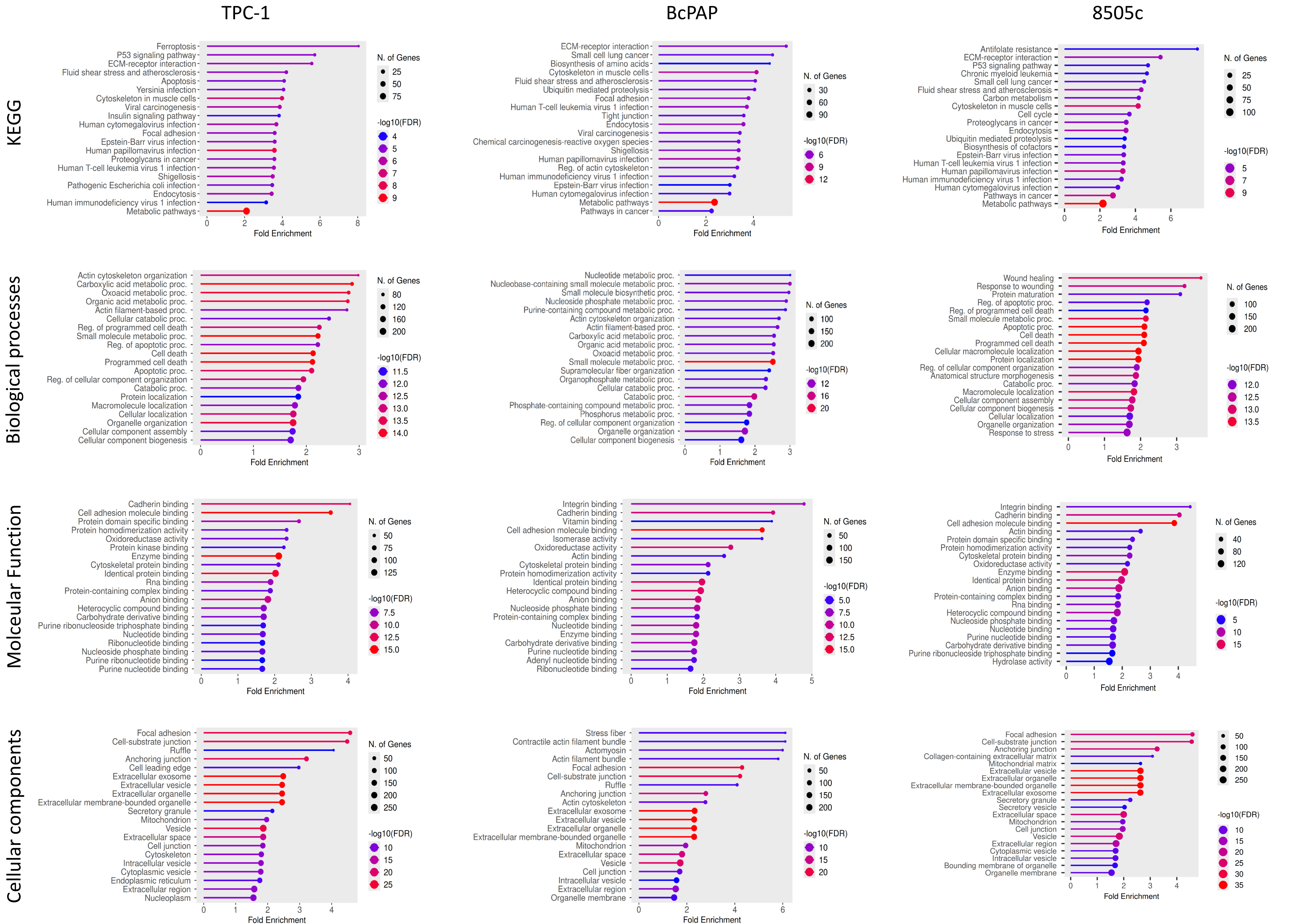
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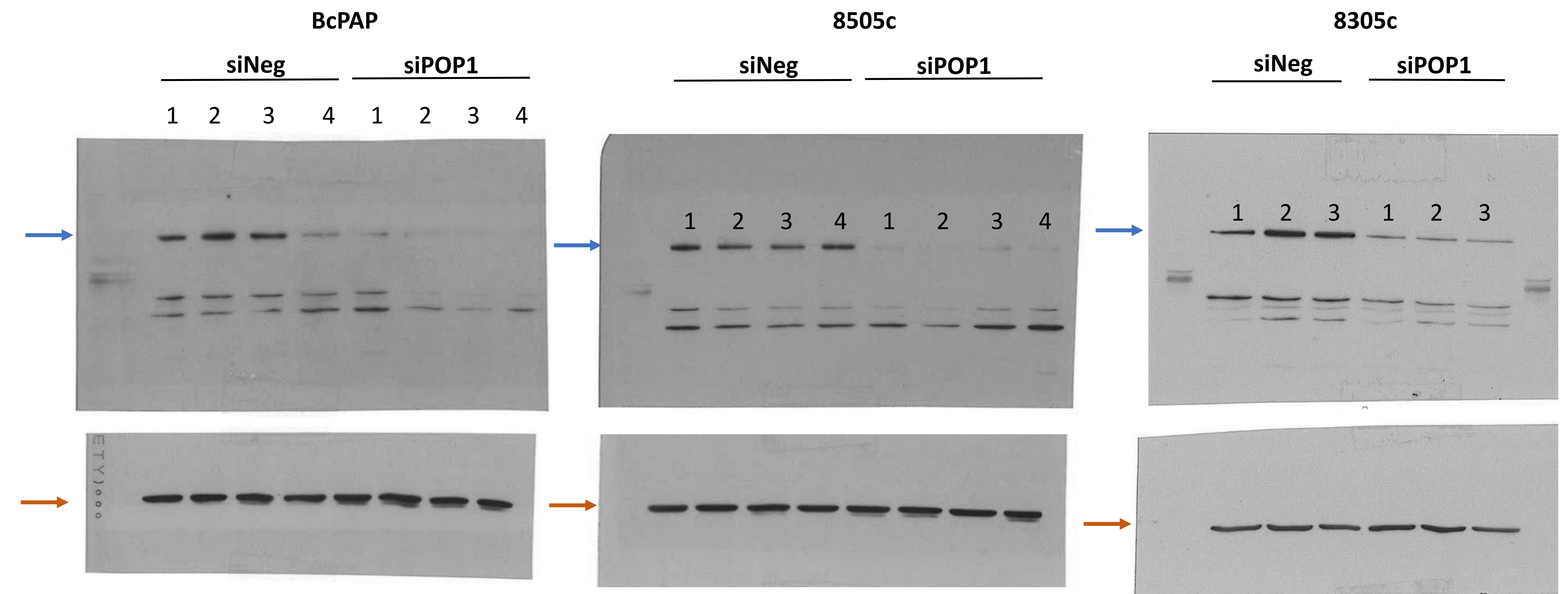
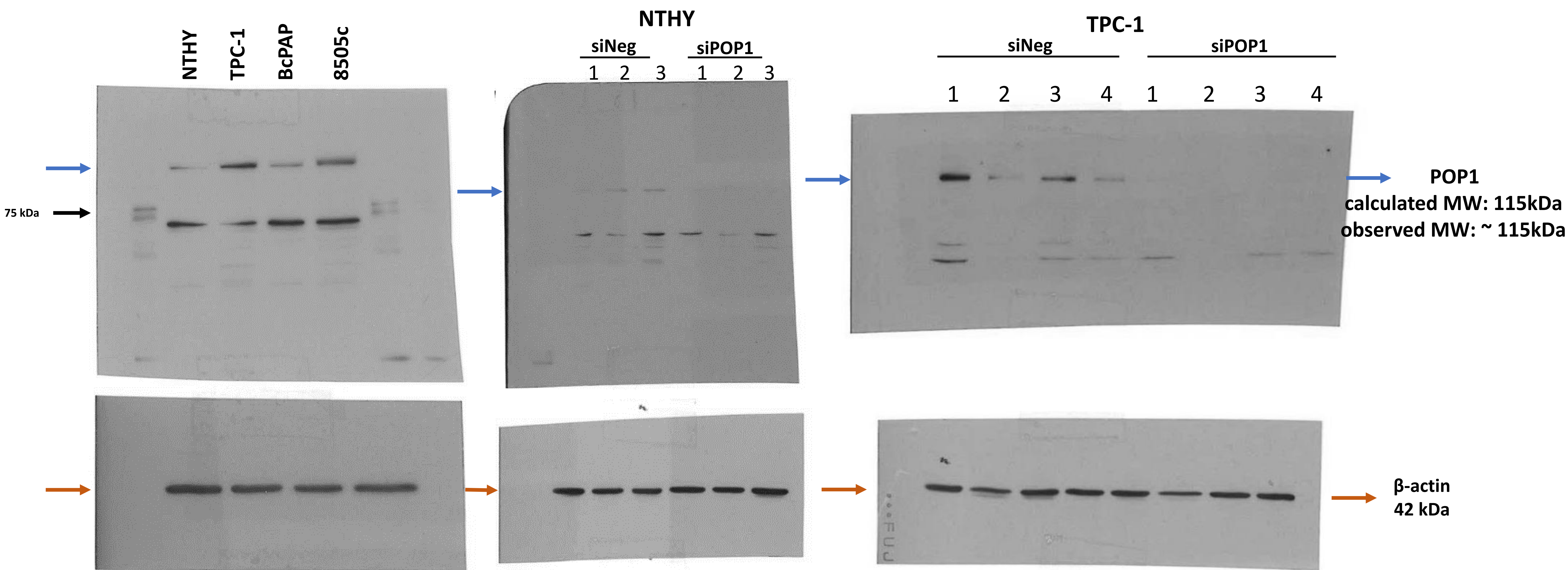
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Supplementary Fig. S1. The most significantly enriched biological processes and KEGG pathways identified based on mass spectrometry results from the TPC-1, BcPAP, and 8505C cell lines



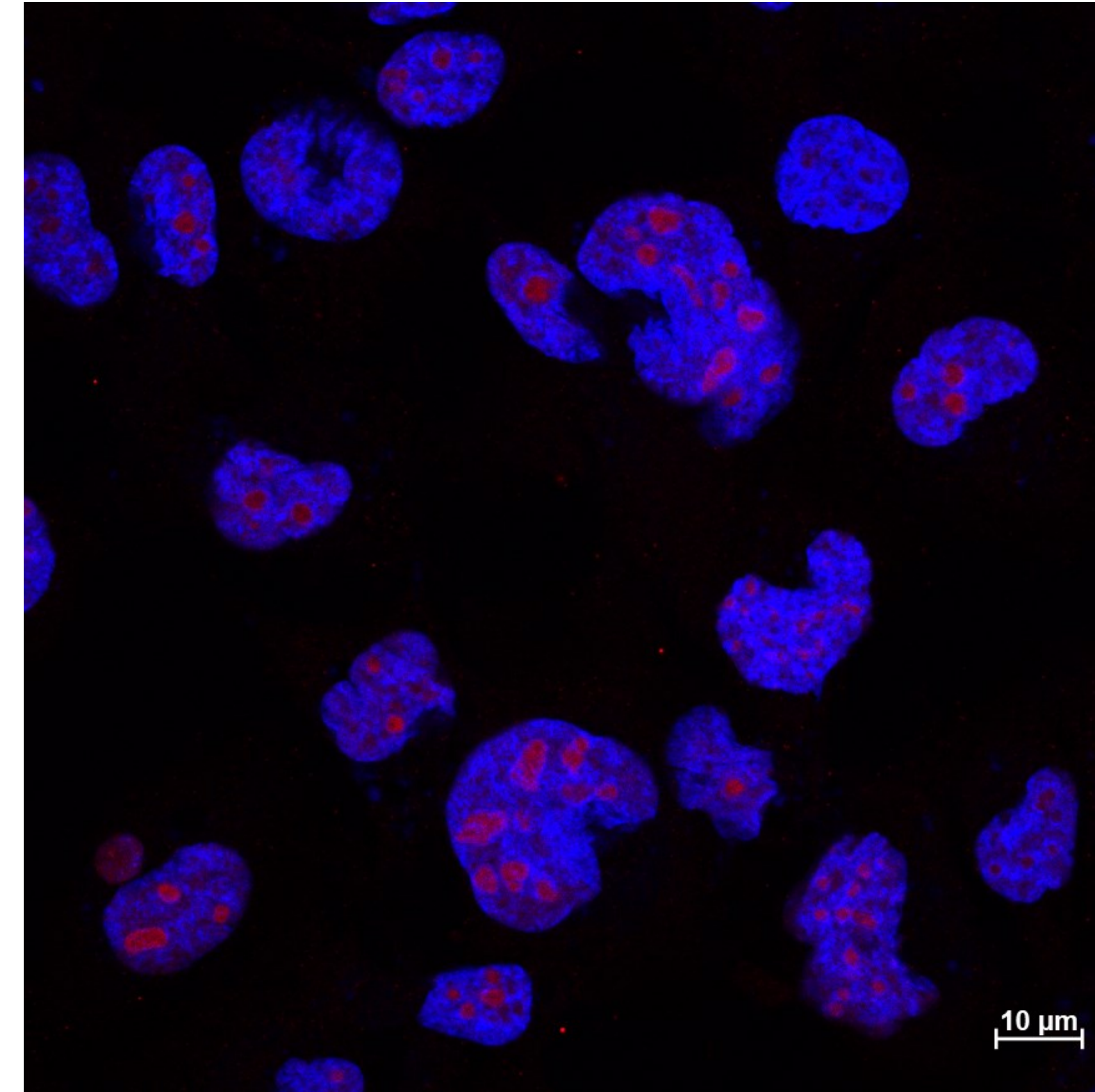
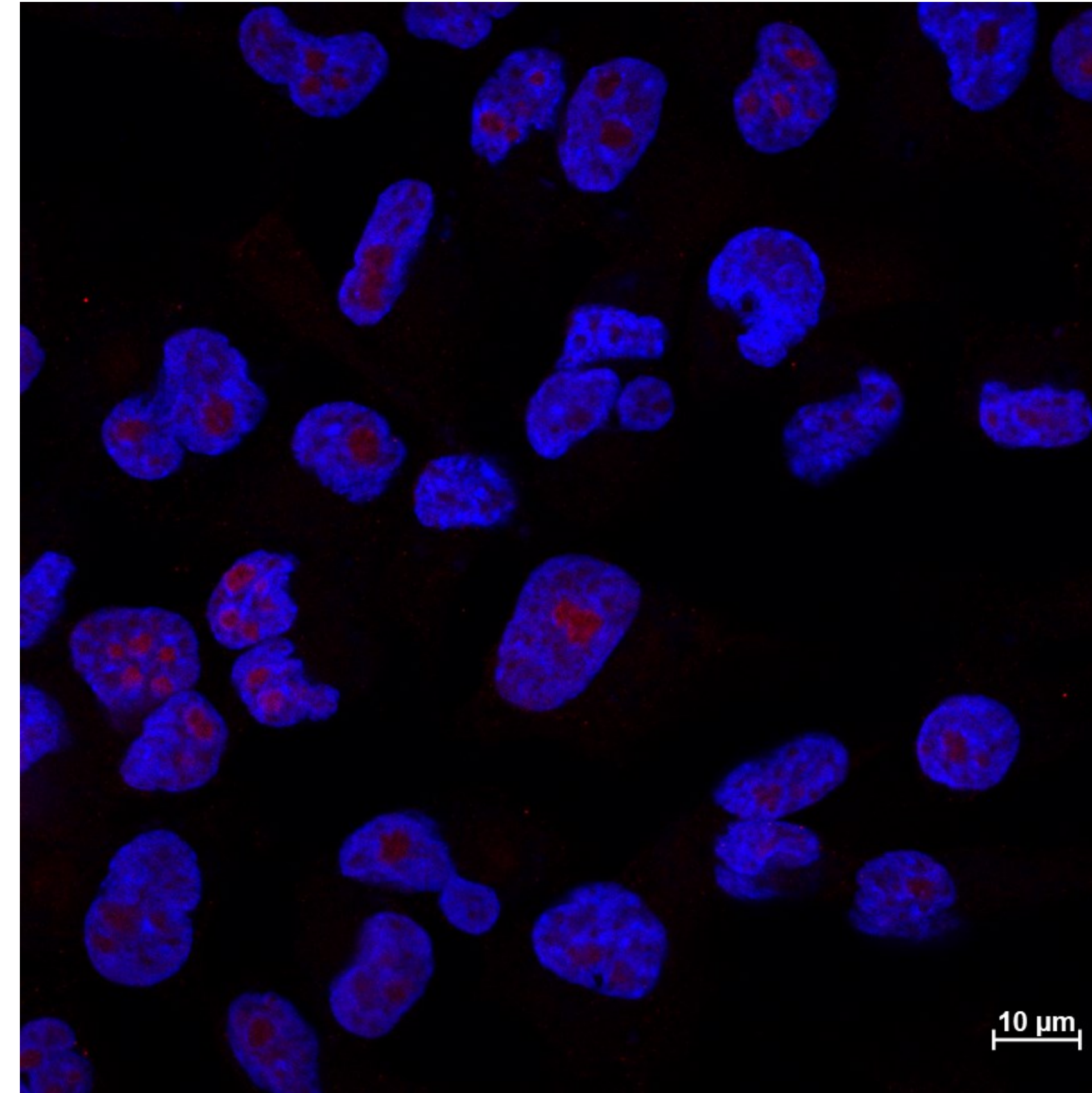
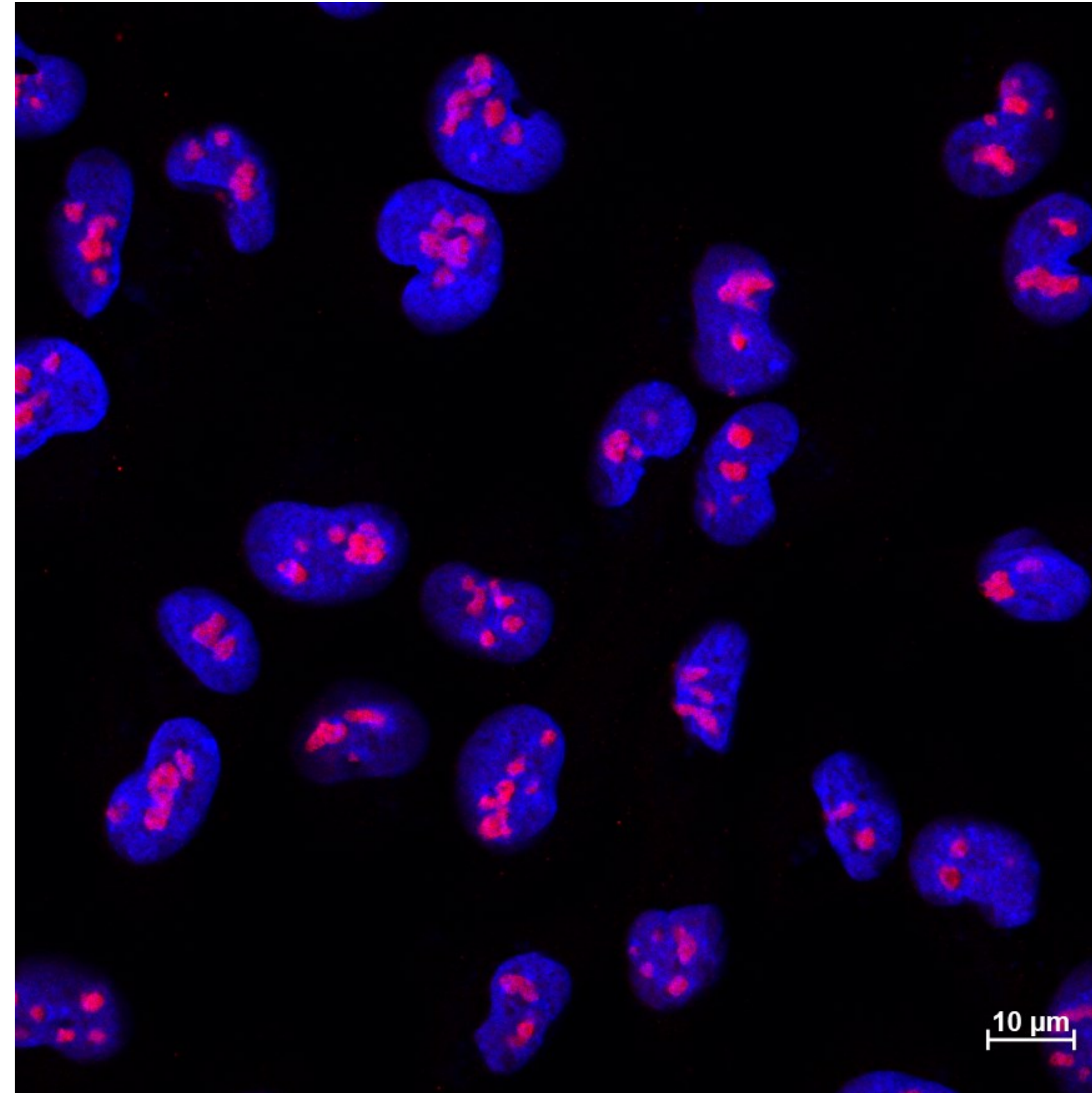
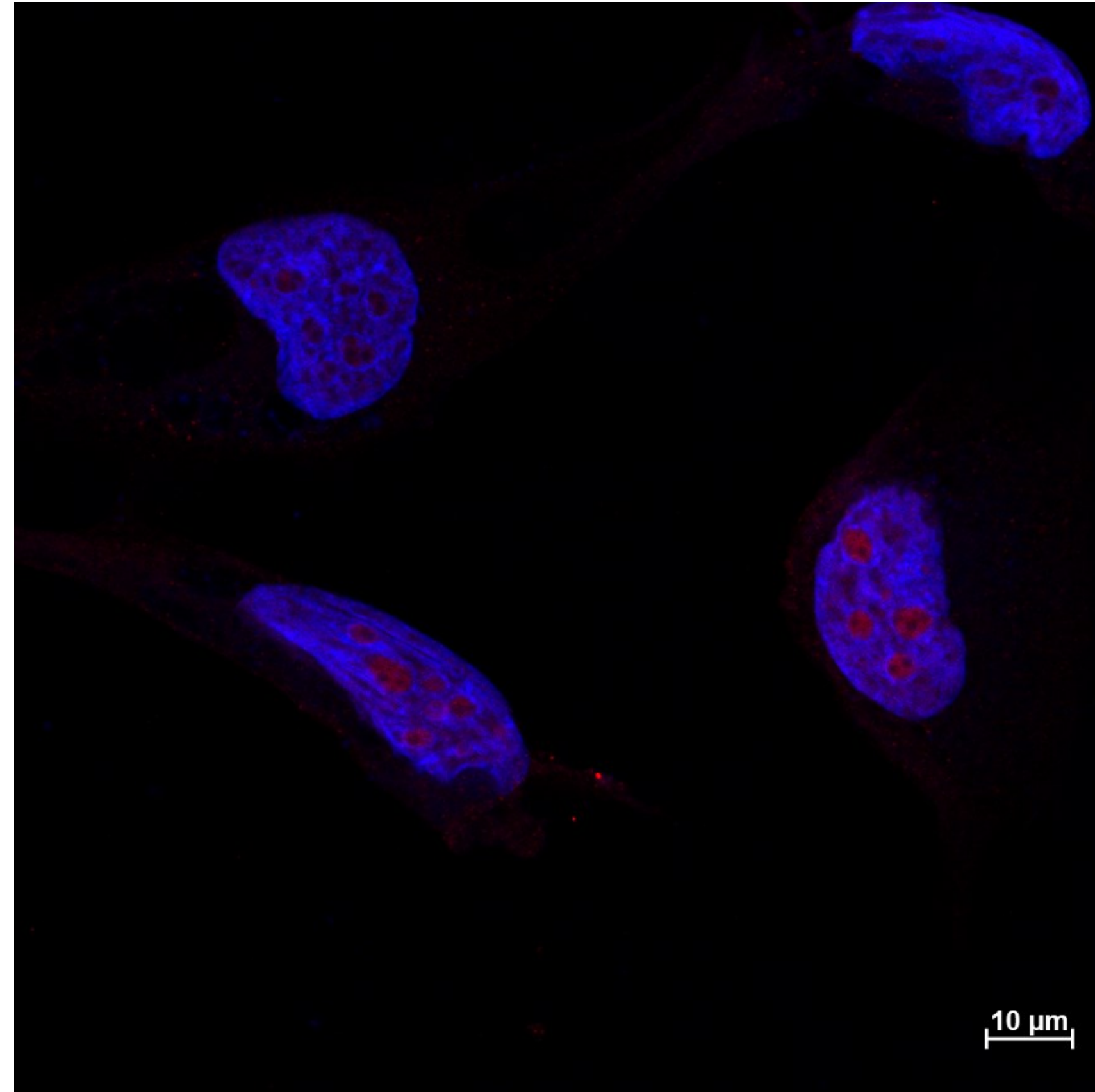
Supplementary Fig. S2. Original available archived scans of Western blot membranes corresponding to the analyses of POP1 protein expression in NTHY, TPC-1, BcPAP, and 8505C cell lines and POP1 silencing in NTHY, TPC-1, BcPAP, 8505C, and 8305C cells. Each lane represents protein extracts from independently transfected cell culture flasks. The scans shown correspond to the original archived records available for these experiments. Blue arrows indicate the POP1 signal, whereas the orange arrow indicates the β -actin signal.

NTHY

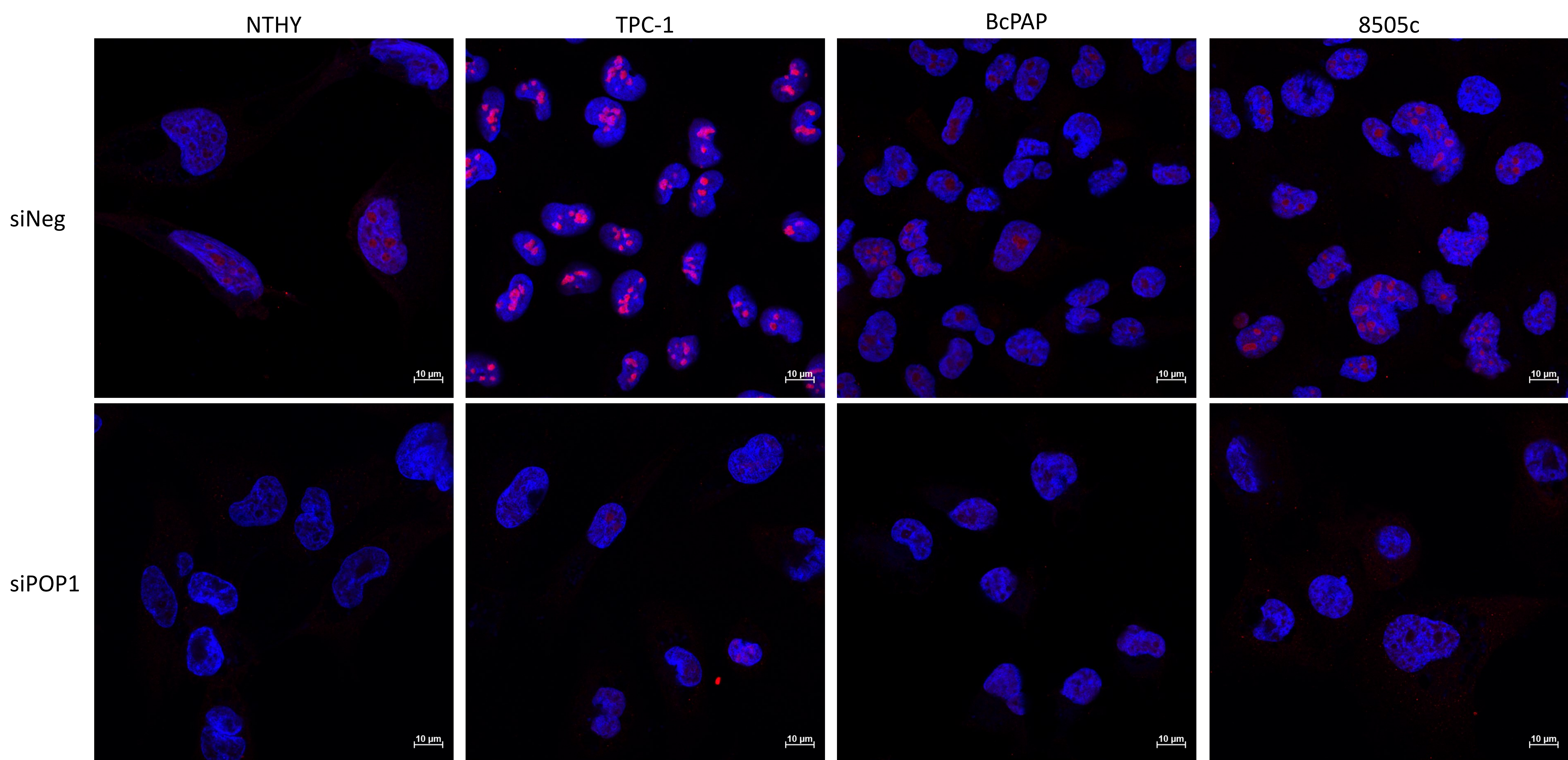
TPC-1

BcPAP

8505c

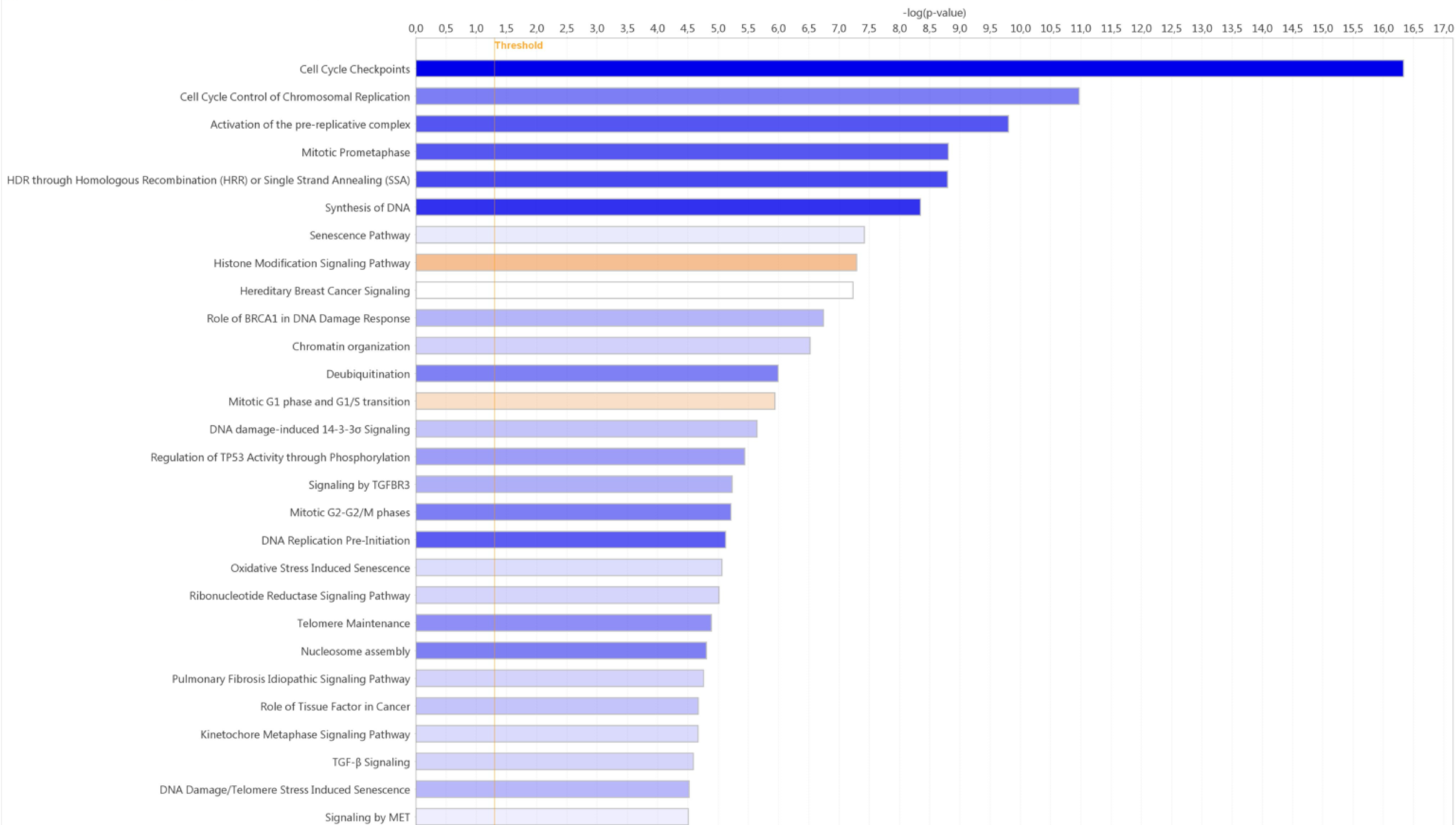


Supplementary Fig. S3. Immunofluorescence-based verification of POP1 expression in NTHY, TPC-1, BcPAP, and 8505C cells. Nuclei were stained with DAPI (blue), and POP1 was detected using Alexa Fluor 594 (red)

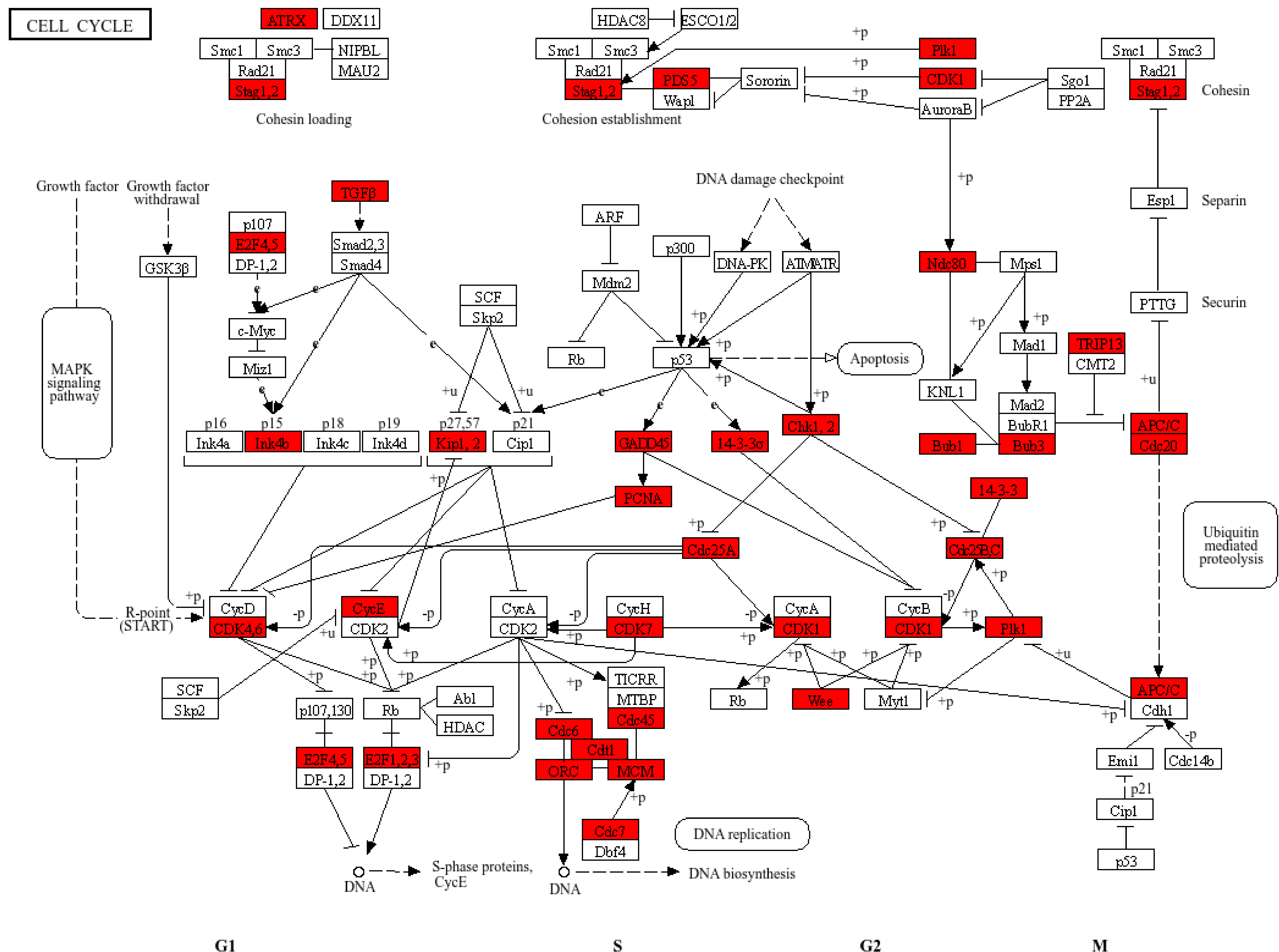


Supplementary Fig. S4. ICC/IF analysis confirming POP1 silencing in NTHY, TPC-1, BcPAP, and 8505C cells. Nuclei were stained with DAPI (blue), while POP1 was detected using Alexa Fluor 594 (red)

positive z-score z-score = 0 negative z-score no activity pattern available

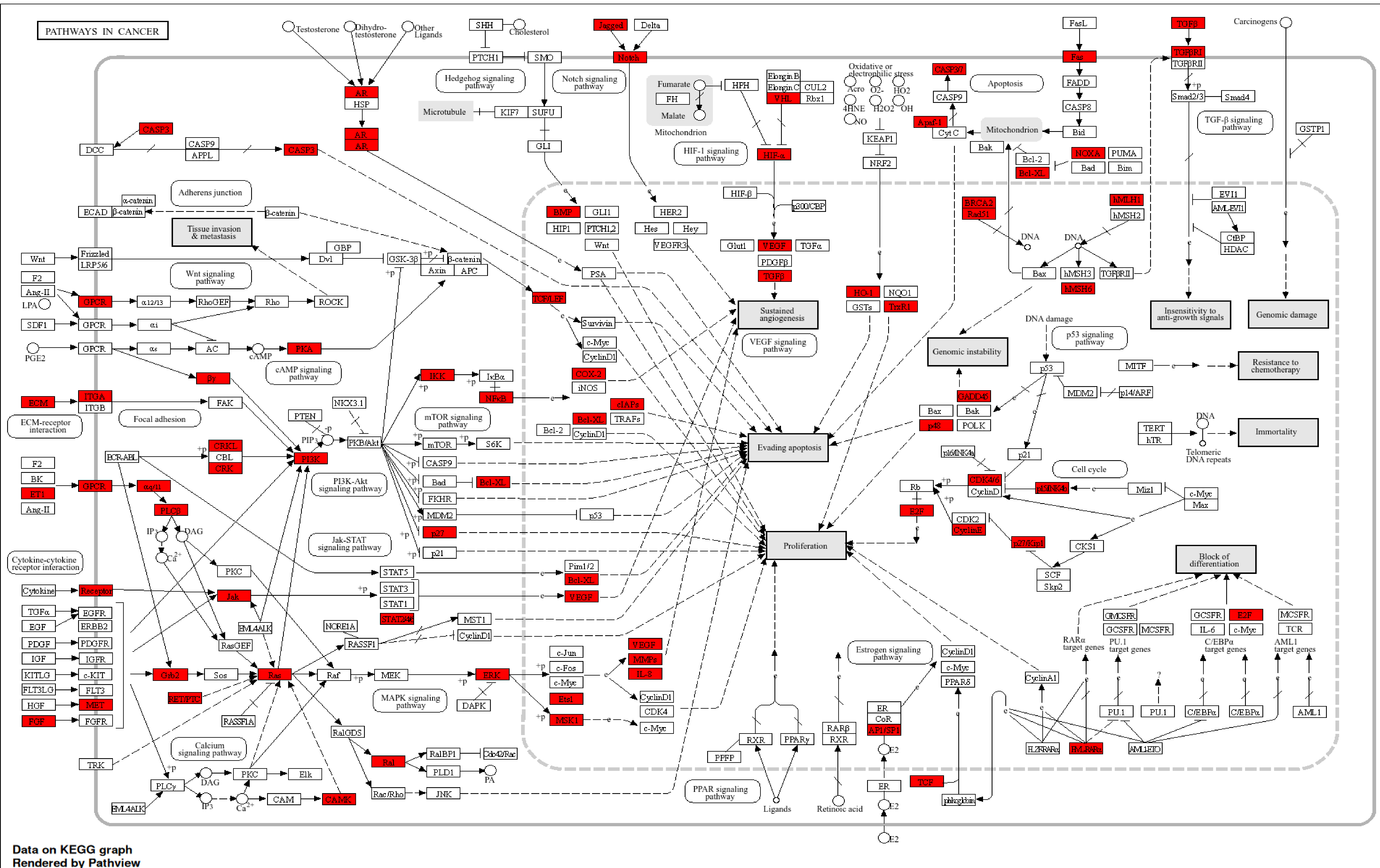


Supplementary Fig. S5. Top canonical pathways identified by Ingenuity Pathway Analysis (IPA) based on microarray data obtained from 8505C cells



Data on KEGG graph
Rendered by Pathview

Supplementary Fig. S6. The impact of POP1 silencing on the expression of genes involved in the cell cycle (based on KEGG pathway analysis)



Supplementary Fig. S7. The effect of POP1 silencing on the expression of genes associated with the KEGG „Pathways in Cancer” pathway