

## Supplementary Material

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### Research Article

# Honey Targets Ribosome Biogenesis Components to Suppress the growth of Human Pancreatic Cancer Cells

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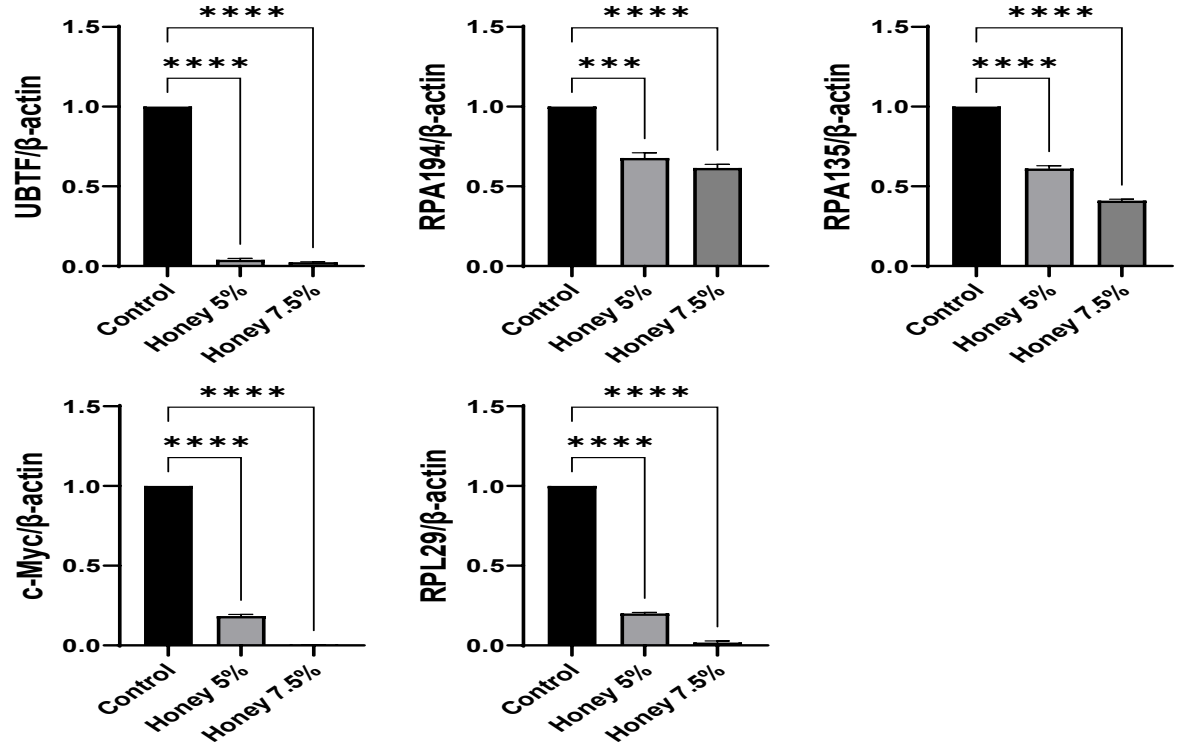
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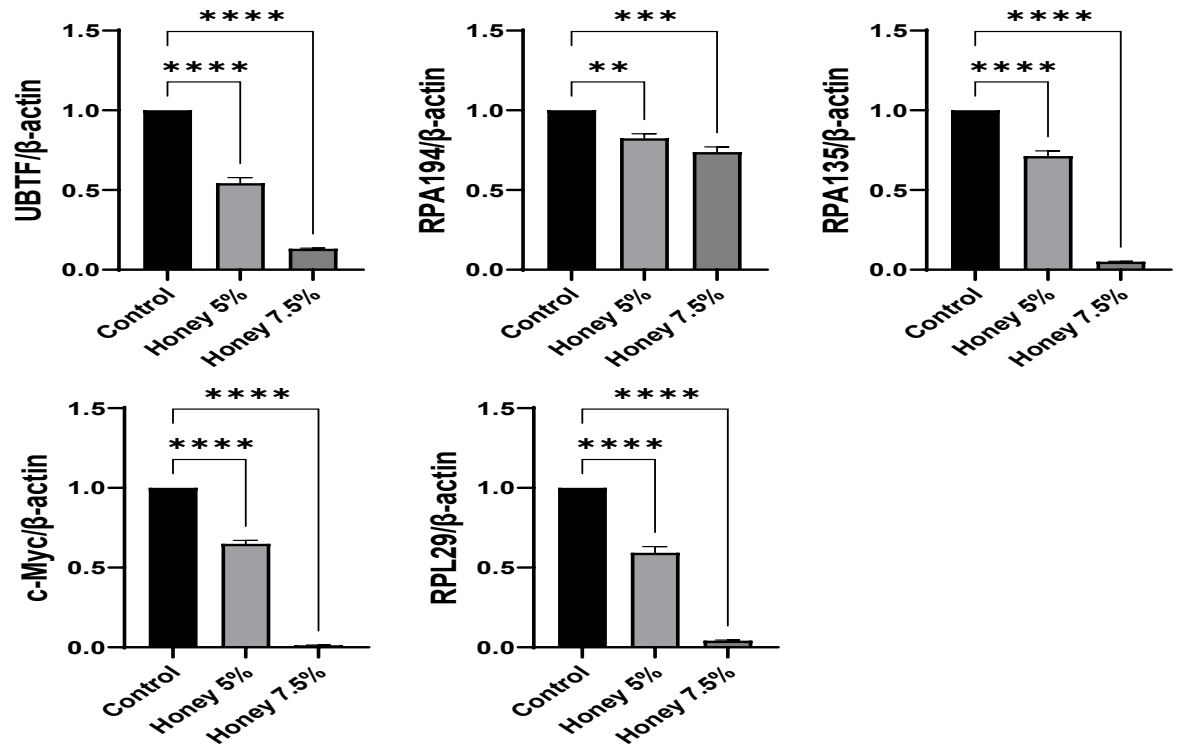
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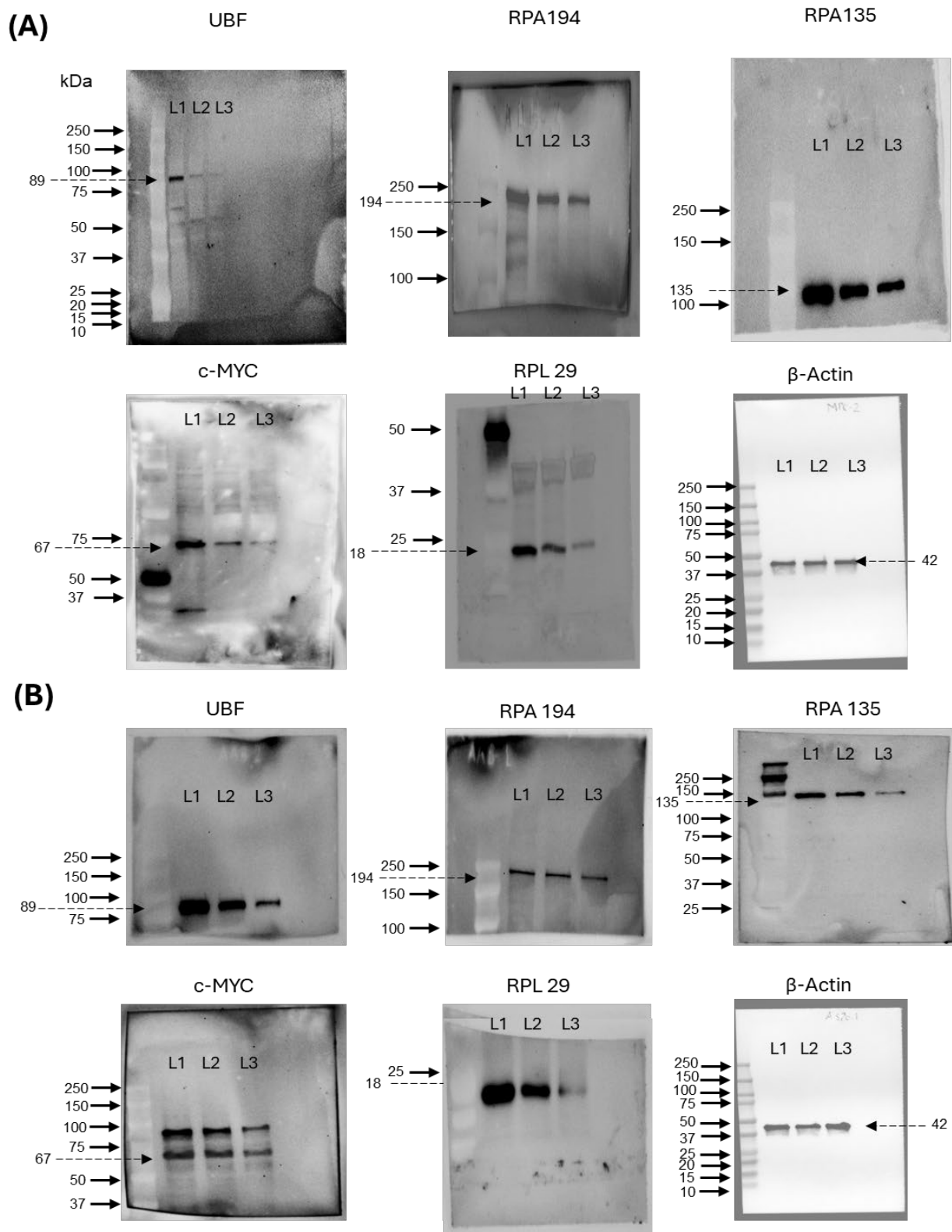
(A)



(B)

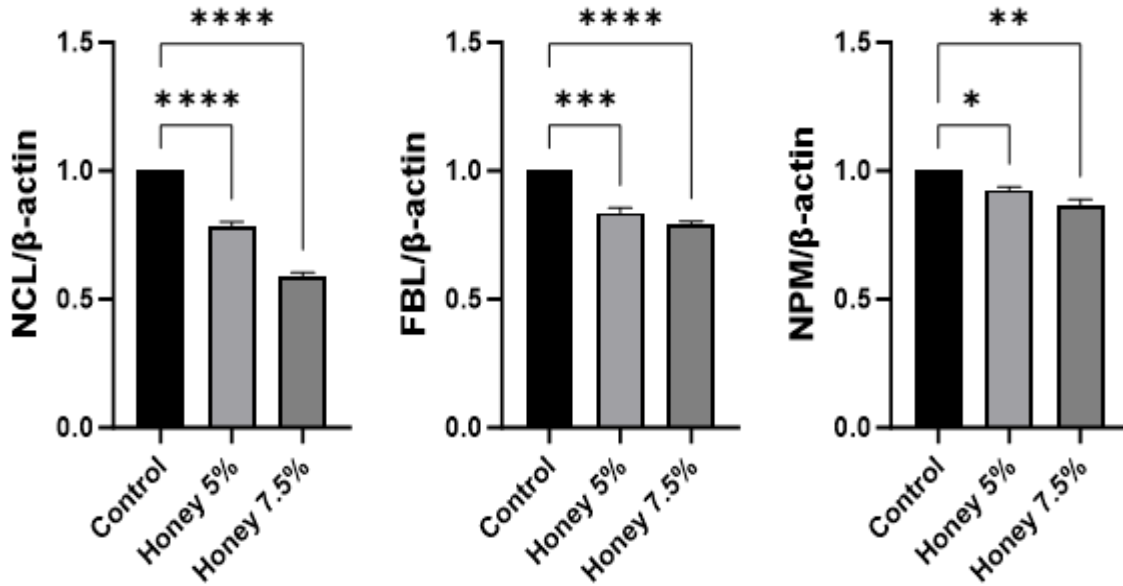


**Supplementary Figure S1: (A);** Quantitation of western blots for the proteins involved in ribosome biogenesis in MIA PaCa-2 cells. The graphs were quantitated using ImageJ software. The statistical analysis was done using GraphPad Prism 10.0.0. The comparisons were done using One way ANOVA followed by Dunnett's multiple comparison test. \*\*\* $p=0.0001$ , \*\*\*\* $p<0.0001$ . **(B);** Quantitation of western blots for the proteins involved in ribosome biogenesis in AsPC-1 cells. The statistical analysis was done using GraphPad Prism 10.0.0. The comparisons were done using One way ANOVA followed by Dunnett's multiple comparison test. \*\* $p=0.0045$ , \*\*\* $p=0.0001$ , \*\*\*\* $p<0.0001$ .

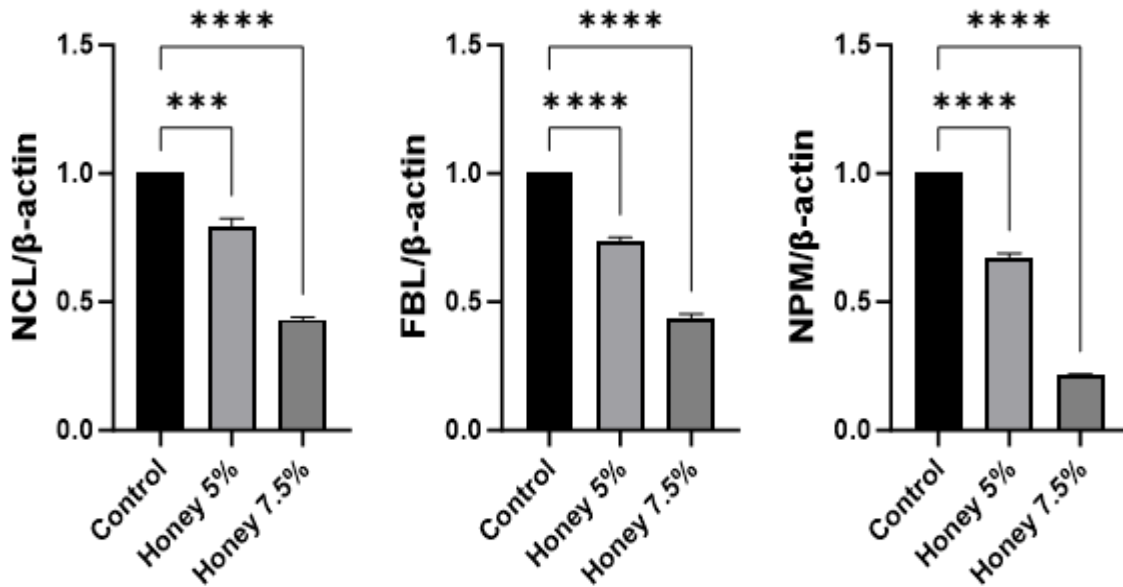


**Supplementary Figure S2: (A);** Western blots of proteins involved in Ribosome biogenesis in MIA PaCa-2 cells. **(B);** Western blots of proteins involved in Ribosome biogenesis in AsPC-1 cells. Lane L1, L2, and L3 represent control, honey 5% , and honey 7.5%, respectively, for both cell lines.

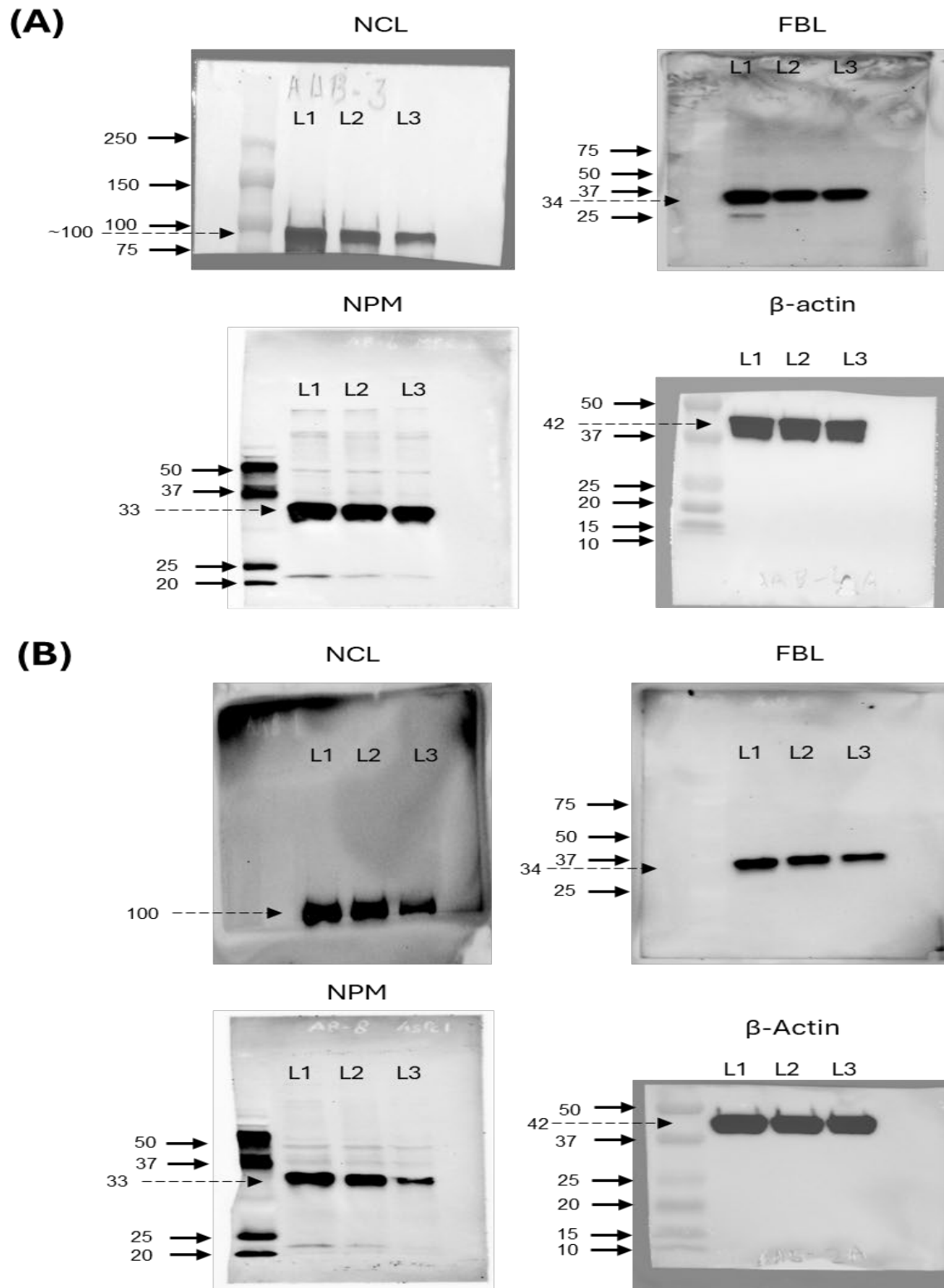
(A)



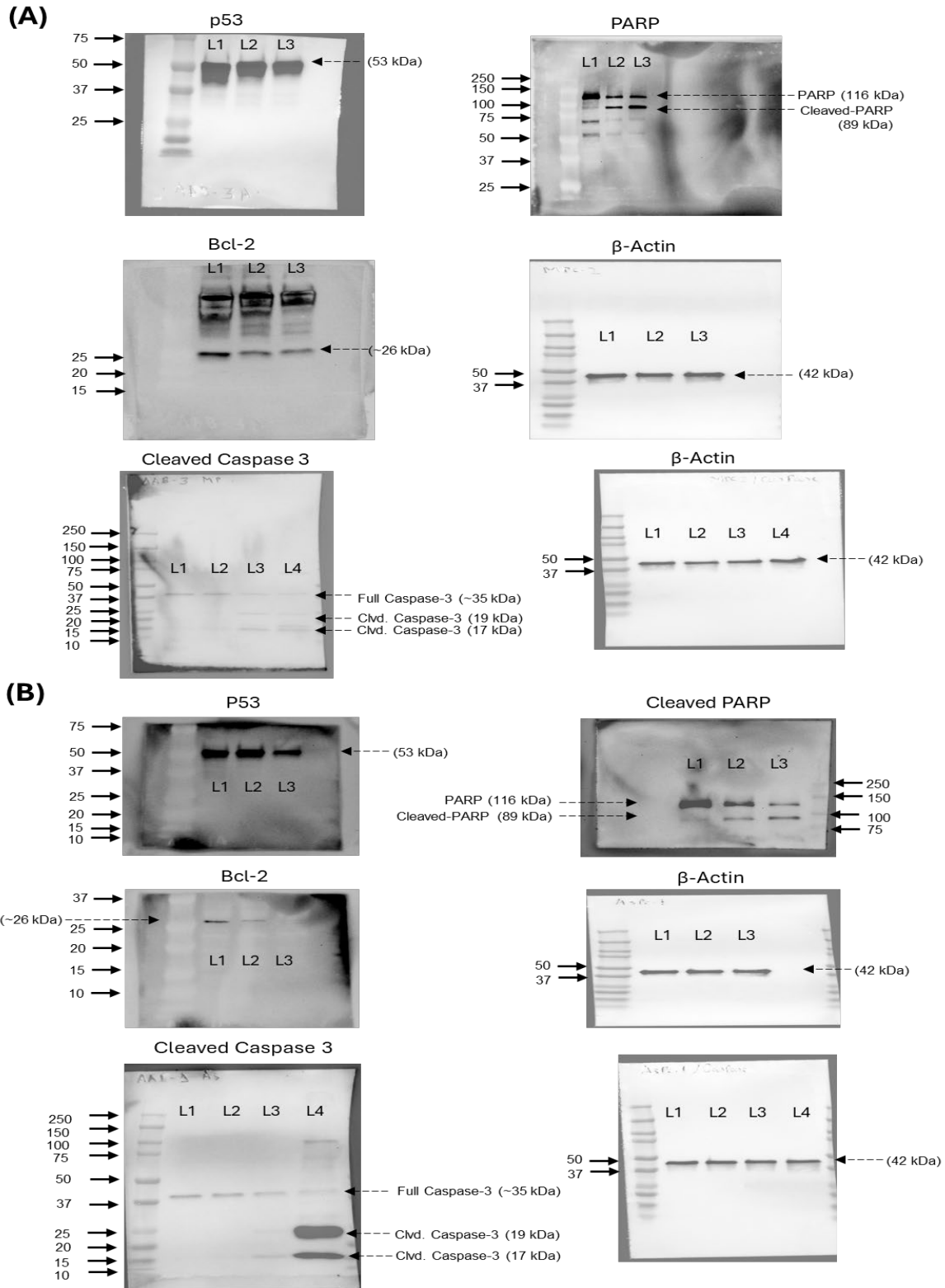
(B)



**Supplementary Figure 3: (A);** Quantitation of western blots for the proteins involved in nucleolar organization in MIA PaCa-2 cells. The graphs were quantitated using ImageJ software. The statistical analysis was done using GraphPad Prism 10.0.0. The comparisons were done using One way ANOVA followed by Dunnett's multiple comparison test. \* $p=0.0265$ , \*\* $p=0.0045$ , \*\*\* $p=0.0001$ , \*\*\*\* $p<0.0001$ . **(B);** Quantitation of western blots for the proteins involved in nucleolar organization in AsPC-1 cells. The statistical analysis was done using GraphPad Prism 10.0.0. The comparisons were done using One way ANOVA followed by Dunnett's multiple comparison test. \*\*\* $p=0.0001$ , \*\*\*\* $p<0.0001$ .



**Supplementary Figure S4: (A);** Western blots of proteins involved in nucleolar organization in MIA PaCa-2 cells. **(B);** Western blots of proteins involved in nucleolar organization in AsPC-1 cells. Lane L1, L2, and L3 represent control, honey 5% , and honey 7.5%, respectively, for both cell lines.



**Supplementary Figure S5: (A);** Western blots of proteins involved in apoptosis in MIA PaCa-2 cells. **(B);** Western blots of proteins involved in apoptosis in AsPC-1 cells. Lane L1, L2, and L3 represent control, honey 5% , and honey 7.5%, respectively, for all proteins except caspase-3 where lane L1, L2, L3 and L4 represent Control 1, Control 2, honey 5% , and honey 7.5%, respectively.