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Summary

DIAPH3 IS UPREGULATED THROUGH M1A METHYLATION, AND PROMOTES THE INVASIVENESS OF COLORECTAL CANCER VIA TARGETING KRT19

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Colorectal

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DIAPH3 mRNA is upregulated through m1A methylation in colorectal cancer and promotes metastasis via regulation of KRT19 degradation.

KEY POINTS

- High expression of DIAPH3 in CRC tissues was significantly associated with metastasis and tended to progress to an advanced stage.
- The mRNA level of DIAPH3 and its m1A modification were increased simultaneously in CRC, as determined by methylated RNA immunoprecipitation sequencing from three CRC patients.
- Knocking down DIAPH3 expression resulted in notable decline in migration and invasion capabilities of CRC cells, which could be rescued by overexpressing KRT19.
- The degradation of KRT19 might be regulated by DIAPH3 in a proteasome-dependent pathway, suggesting a DIAPH3-KRT19 signaling axis in CRC metastasis.

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