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OF ENGLISH LANGUAGE EDITING



FAM111B knockdown attenuates tumorigenesis of ovarian cancer via the downregulation of MYC

Background Ovarian cancer, a prevalent malignancy with the highest fatality rate among gynecological cancers, continues to face challenges in the development of effectively targeted therapeutic approaches. While the FAM111B gene has been implicated in various cancer types, its specific role in ovarian cancer remains poorly understood.

Methods The ES2 and A2780 ovarian cell lines were exploited to explore the cellular proliferation, migration, invasion, and epithelial-mesenchymal transition (EMT) in FAM111B knockdown experiments. We constructed a mouse tumor model to investigate the impact of FAM111B silencing in vivo; employed tissue microarray to explore the prognostic value of different FAM111B expression levels; and applied western-blot assay, MYC-overexpression rescue experiments, protein transcriptomics, and bioinformatic analysis to examine the ...

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