عنوان مقاله:

MAGIY-ASም restrains proliferation, glycolysis, and triggers apoptosis in acute lymphoblastic leukemia via regulating miR-۴۵۲-۵p/FOXNም pathway

محل انتشار:

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خلاصه مقاله:

Objective(s): MAGIY-AS[™] is a cancer suppressor gene of multiple malignancies. Acute lymphoblastic leukemia (ALL) is an important type of leukemia that especially occurs in children. Our work evaluated the modulation of MAGIY-AS[™] in ALL.Materials and Methods: qPCR and Western blotting were adopted for detection of target molecular expression. Growth and apoptosis were determined by CCKA assay and Annexin V/PI staining. Glycolysis was detected by commercial kits. The direct binding between miR-Fay-ap and MAGIY-AS[™] or FOXN[™] was assessed by luciferase reporter assay. Tumor growth was measured in nude mice in vivo.Results: MAGIY-AS[™] was down-regulated in ALL. Enforced expression of MAGIY-AS[™] inhibited growth and glycolysis while promoting apoptosis of ALL cells. Moreover, MAGIY-AS[™] up-regulated FOXN[™] via sponging miR-Fay-ap. FOXN[™] depletion abrogated MAGIY-AS[™]-mediated anticancer action. More importantly, MAGIY-AS[™] repressed ALL cell growth in nude mice through regulation of .miR-Fay-ap/FOXN[™]. Conclusion: MAGIY-AS[™] inhibits ALL development via modulating miR-Fay-ap/FOXN[™]

کلمات کلیدی:

ALL, Apoptosis, FOXNW, Glycolysis, Growth, MAGIY-ASW, miR-Fay-ap

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