

MiR-195 suppresses the thyroid cancer by targeted Raf1

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Abstract In the present study, we analyzed microRNA-195 and the protein of Raf1 using 100 thyroid cancer samples and paracancer tissue obtained from Zhejiang Cancer Hospital. To demonstrated that miR-195 expression was lower in tumor tissues and was associated with poor survival. We conducted in vitro experiment as well as clinical studies in a cohort of 100 thyroid cancer samples. Overexpression of miR-195 blocked tumor cell proliferation. We discovered that Raf1 was a direct target of miR-195, which inhibits Raf1 expression in thyroid cancer cells. High expression of Raf1 in thyroid tumors suppressed tumor cell migration, apoptosis and differentiation, and was associated with poor overall survival. Our findings suggest that miR-195 regulates Raf1 in thyroid tumor by a novel mechanism and predicts thyroid cancer prognosis.