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Arf6 Expression in the Tissues of Patients with Colorectal Cancer

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ABSTRACT Colorectal cancer is one of the most common types of cancer in the world and the molecular mechanism of colorectal cancer has not been clearly elucidated yet. Adenosine diphosphate-ribosylation factors (Arfs) are a family of Ras-related GTP binding proteins. As member of adenosine diphosphate-ribosylation factors family, Arf6 plays an important role in carcinogenesis due to its function relating to the remodelling actin cytoskeleton, cell polarity, and cell migration. The aim of this study was to compare the expression levels of *Arf6* mRNA in the tumor and adjacent healthy colon/rectum tissues in colorectal cancer patients and to determine whether there was a relationship between *Arf6* expression and the clinicopathological characteristics of patients. Tissue samples were surgically collected from 43 patients with colorectal cancer. The expression analysis of *Arf6* mRNA was evaluated by Real-Time PCR. As a result of the study, no statistically significant difference in *Arf6* expression levels was found between tumor and adjacent healthy tissues and no statistically significant relationship was found between *Arf6* expression and the clinicopathological features ($p>0.05$). The result of this study indicates that *Arf6* expression is not related to colorectal cancer.