

عنوان مقاله:

Non-invasive colorectal cancer screening by ITGA4 promoter methylation in peripheral blood mononuclear cells

محل انتشار:

کنگره بین المللی علوم زیست پزشکی اصفهان (سال: 1399)

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خلاصه مقاله:

Background: Early diagnosis of cancer is necessary for treatment and prevention and can reduce the rate of death due to cancer. ITGA4 is one of the cell surface molecule that its methylated form is important role in many cancers for example CRC. This study aimed to assess the diagnostic role of TIGA4 hypermethylation in cancer especially in CRC.Materials and Methods: In this study 200 CRC patients and 200 normal controls were recruited to measure quantitative methylation of ITGA4 genes in DNA extracted from peripheral blood mononuclear cells (PBMCs) using MethyQESD method.Result: The promoter methylation of ITGA4 gene in cancer group was significantly higher than non-cancer group (mean, 122.4 vs. 99.3, respectively, P<0.05). The sensitivity and specificity of ITGA4 gene for diagnosis of CRC was 54.9% and 60.2 % respectively. Our study demonstrate that ITGA4 methylation might be a .valuable biomarker for CRC diagnosis

کلمات کلیدی: Colorectal cancer, screening, MethyQESD

لینک ثابت مقاله در پایگاه سیویلیکا:

https://civilica.com/doc/1123254

