

## عنوان مقاله:

Clinicopathological Significance of PTEN Expression and Its Prognostic Effect in Colorectal Adenocarcinoma Patients

## محل انتشار:

فصلنامه آسیب شناسی ایران، دوره 17، شماره 2 (سال: 1401)

تعداد صفحات اصل مقاله: 9

## نویسندگان:

Zohreh Mirzapour Abbas abadi - *Department of Molecular Medicine, Faculty of Medical Sciences, Qazvin University of Medical Sciences, Qazvin, Iran*

Fatemeh Samiee Rad - *Department of Pathology, Faculty of Medical School, Qazvin University of Medical Sciences, Qazvin, Iran*

Dariush Hamed Asl - *Department of Pathology and Molecular Medicine, Mehr Laboratory, Hashtgerd, Iran*

Babak Rahmani - *Department of Molecular Medicine, Faculty of Medical Sciences, Qazvin University of Medical Sciences, Qazvin, Iran*

Mahmood Soleimani Dodaran - *Qazvin University of Medical Sciences*

Amir Peimani - *Medical Microbiology Research Center, Qazvin University of Medical Sciences, Qazvin, Iran*

## خلاصه مقاله:

**Background & Objective:** Phosphatase and tensin homolog (PTEN) is a tumor suppressor gene located at chromosome 10. PTEN is a regulator of the PI3K/AKT signaling pathway that inhibits cell proliferation and promotes apoptosis. PTEN loss of function occurs in a spectrum of cancers, including colorectal adenocarcinoma. This study aimed to investigate the probable correlation of negative PTEN expression with clinicopathological features and colorectal adenocarcinoma (CRC) patients' survival. **Methods:** In this cross-sectional study using Immunohistochemistry staining PTEN expression status on 151 CRC tissues was evaluated. Then the results of IHC staining was compared to those of clinicopathological features. The relationship between PTEN and KRAS mutation status was also investigated. **Results:** Of 151 CRC samples, 89 (58.9%) were negative for PTEN expression. Loss of PTEN expression was associated with KRAS mutation (P

## کلمات کلیدی:

Adenocarcinoma, Clinicopathology, Colorectal cancer, PTEN, Prognostic Factors

## لینک ثابت مقاله در پایگاه سیویلیکا:

<https://civilica.com/doc/1424220>



