

PTEN gene is a tumor suppressor gene located in 10q23,3 that encode dual- specificity protein and lipid phosphatase with tensin homolog. The PTEN protein signals adjust cell splitting up and express cells to enter normal cell death way. defeat of PTEN leads to over –foundation of AKt, which in circle , is related with unrestrained cell production. In this cross section study, we examined 50 paraffin-embedded blocks belongs to 50 patients with proved prostate cancer, All slides subjected to IHC KI67 Ab (which is a parameter of proliferative activity of malignant cells), and to 1 molecular study of PTEN gene in all tissues by using CISH technique.

The association between PTEN gene status examined by CISH technique with KI67 score performed by IHC technique , is highly significant, in that we get 71.43% (25/35) of no deletion cases had KI67 score $\leq 10\%$ of cells, while in cases with PTEN gene deletion , we had 73.33% (11/15) of cases carry KI67 score $>10\%$ of cells