

## Abstract

The *K-RAS* mutation play different role in diagnosis, prognosis and treatment efficacy in different types of cancer. The study was designed for the analysis of *K-RAS* mutation and their clinical pathological significance in breast cancer. In *K-RAS* codon 12 and 13 that had an important role in various types of cancer were studied in the invasive ductal carcinoma of the breast. We investigated the blood samples of the cancer patient with ARMS PCR, nested PCR and by Sanger DNA sequencing for codon 12 and 13. The results of our study find out that there is no mutation in any of the seven studied SNPs. The low frequency of activated *K-RAS* mutations in our mutational analysis study of the breast cancer little can be concluded about the malignant potential of a tumor containing an activated *K-RAS* gene.