

PIK3CA MUTATION ANALYSIS

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(PCR, Sequencing)

Exon 9 Mutation

Detected/ Not detected/ inhibition detected

Exon 20 Mutation

Detected/ Not detected/ inhibition detected

Note:

1. This is an in-house developed test useful for the detection of point mutations
2. The tissue should contain at least 10% of tumor cells
3. This assay detects mutations in Exons 9 and 20 but does not detect mutations located in regions of the genes that are not analyzed and gross genetic alterations including most large deletions, duplications, and inversions
4. In case inhibition of PCR is detected, a repeat sample is requested

Comment

Mutations in the PIK3CA gene have been identified in carcinomas arising from colon, breast, ovary, liver, stomach, and lung as well as in Glioblastomas. Evidence suggests that such mutations lead to constitutive activation of the PI3K pathway. Mutations in PIK3CA are clustered and occur mainly in the helical (exon 9) and kinase (exon 20) domains of the protein. This assay helps in risk stratification and classification of tumors.