

FLT3 gene mutation

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(Real Time PCR and
fragment analysis)

FLT3-ITD
FLT3-TKD

Note:

1. This test detects FLT3-internal tandem duplication (ITD) by fragment analysis on a capillary electrophoresis system and FLT3-tyrosine kinase domain mutation(TKD) D835 by real time PCR
2. This is an in-house developed assay
3. Test conducted on Whole blood / Bone Marrow

Comments

FLT3 mutations are class I mutations that occur in 30% AML with normal karyotype, AML with t (15; 17), AML with t(6;9) and in AML with mutated NPM1. The mutations are most commonly internal tandem duplications. There are also cases of point mutations within the tyrosine kinase domain. The presence of FLT3 mutations confers a poorer prognosis than in similar cases without FLT3 mutations.

Uses

- For prognostic evaluation of AML