

TRUPCR® FLT3 Mutation Detection Kit  

The kit detects the following in the FLT3 gene, from genomic DNA extracted from AML patients:

- Internal tandem duplication (ITD) – PCR followed by gel electrophoresis
- Tyrosine kinase domain (TKD) mutation (D835) – Real-time PCR

The FLT3 gene encodes for a receptor tyrosine kinase (RTK) that plays a critical role in haematopoiesis and cell growth. The most common mutation in FLT3 involves an internal tandem duplication (ITD) between exons 14 and 15 in the juxtamembrane domain, which varies in length and position from patient to patient. The main impact of FLT3-ITD is its association with high blast counts, increased risk of relapse and decreased survival.

The second most common type of mutation in FLT3 is the missense mutation in exon 20 of the activation loop (A-loop) in the tyrosine kinase domain (TKD). This mutation involves the substitution of an aspartate with a tyrosine at codon 835 (D835Y) by a point mutation (GAT→TAT).

Key features:

- Sensitive and specific detection of FLT3-ITD and D835
- Sensitivity to detect up to 1% mutant allele in background
- Compatible with various Real-time & conventional PCR instruments
- Easy-to-use, rapid, reliable, robust and cost-effective

Ordering information:

| Cat. No. | Product | Contents |
|---------------|--|----------------|
| 3B1313 | TRUPCR® FLT3 Mutation Detection Kit | 48 Rxns |
| 3B1314 | TRUPCR® FLT3 Mutation Detection Kit | 96 Rxns |

For enquiries and orders please contact us:

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