

FLT3 ITD MRD Assay & *NPM1* MRD Assay

RUO Kits

Background

Measurable residual disease (MRD) is a critical biomarker in acute myeloid leukemia (AML) research and discovery. While each genetic profile of AML differs, the combination of genetic aberrations, such as the presence of *FLT3*-ITD and *NPM1* insertions, can provide information over the course of this disease. In a study evaluating the persistence of residual *FLT3*-ITD and *NPM1* mutations among subjects with AML in first remission prior to allogeneic cell transplant, those with an allele fraction $\geq 0.01\%$ trended towards elevated risk of relapse and mortality compared to those without these mutations.^{1,2}

Principle of the Procedure

Invivoscribe's targeted, deep-sequencing assays are easily implemented together, following identical, streamlined workflows. Designed for high-throughput laboratories, each kit configuration includes 24 master mixes, each containing a carefully-selected, unique dual-index to prevent cross-contamination due to barcode hopping. *FLT3* ITD MRD Software and *NPM1* MRD Software analysis is initiated through REST-API or command line interface. The data is output in a tab-separated value (TSV) file.

Key Benefits

1. Allelic sensitivity level of 5×10^{-5}
2. Batch samples using previously isolated gDNA
3. Baseline sample not required
4. Flexibility to multiplex targets and up to 24 unique indexes to gain cost-efficiencies
5. Identify and track of distinct *FLT3*-ITD and *NPM1* mutations and/or insertions from a single sample
6. Dockerized software enables highly portable, flexible and efficient sample analysis
7. Compatible with multiple sequencing platforms

Workflow



Ordering Information

FLT3 ITD MRD Assay and Software

Catalog #	Product	Quantity
14120019	FLT3 ITD MRD Assay	96 reactions
	Components	
	FLT3 ITD Positive Control	500 µL tube x 2 each
	FLT3 ITD Negative Control	500 µL tube x 2 each
	FLT3 ITD Master Mixes	75 µL tube x 24 each
S100005	FLT3 ITD MRD Software	1 Dockerized Application

Learn more about the
FLT3 ITD MRD **Assay**



Learn more about the
FLT3 ITD MRD **Software**



NPM1 MRD Assay and Software*

Catalog #	Product	Quantity
14160019	NPM1 MRD Assay	96 reactions
	Components	
	NPM1 Positive Control	500 µL tube x 2 each
	NPM1 Negative Control	500 µL tube x 2 each
	NPM1 Master Mixes	75 µL tube x 24 each
S100004	NPM1 MRD Software	1 Dockerized Application

Learn more about the
NPM1 MRD **Assay**



Learn more about the
NPM1 MRD **Software**



References

1. Dillon et al (2023) *JAMA*. 329(9):745-755.
2. Dillon et al (2024) *JAMA Onc*. 10(8):1104-1110.

*Contact Invivoscribe for regional availability

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