



Background

Currently there are several EGFR-TKIs approved for NSCLC (Non-small Cell Lung Cancer) targeted therapy, including first-generation TKIs: gefitinib and erlotinib, second-generation TKI: afatinib, and third-generation TKI: osimertinib. To select right patients for these therapies, it is essential to detect EGFR mutation status before treatment decision.

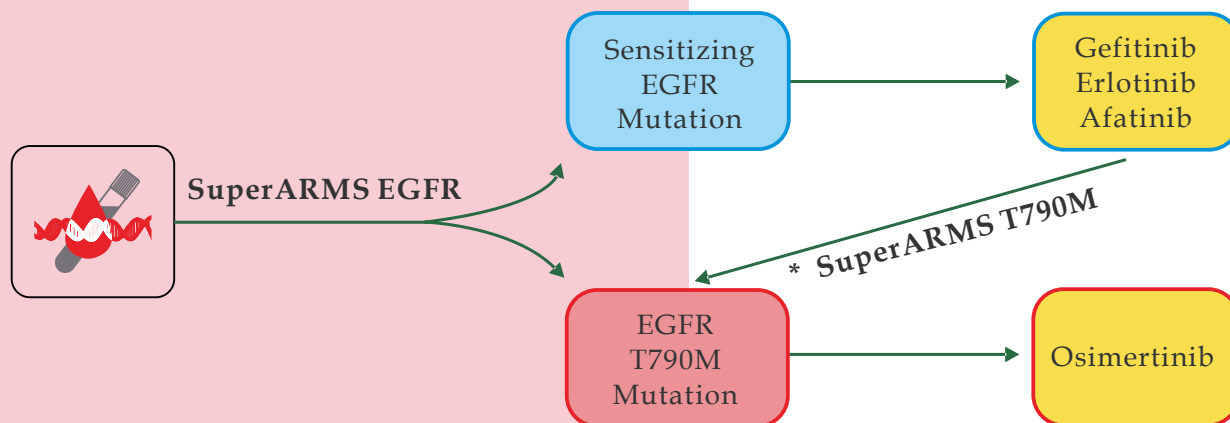
NSCLC tissue testing has been applied to EGFR mutation detection for years. However, up to 25% of patients with advanced or metastatic NSCLC do not have an available or sufficient tumor tissue sample for this method of testing. And more and more dynamic monitoring demand for EGFR mutation status appears. When tissue sample is not an option, the ctDNA (circulating tumor DNA) obtained from blood sample could be used for the assessment of EGFR mutation status.

SuperARMS® EGFR kits are highly sensitive real-time PCR-based test designed to identify ctDNA EGFR mutation in plasma samples for patients with advanced or metastatic NSCLC. The kits adopt innovative ADx-SuperARMS technology which is upgraded from ADx-ARMS technology. Its optimized reaction system can rapidly and accurately detect a low percentage of mutant ctDNA in a background of wild-type DNA.

References:

1. Annu. Rev. Pathol. Mech. Dis. 2013
2. Douillard, J-Y *et al.* (2014) British Journal of cancer 110:55-62
3. Zheng D, *et al.* 2015 ASCO Abstract 8080

NSCLC EGFR Blood Testing Options



* Adopt SuperARMS T790M Kit for resistance monitoring of patients relapsed from EGFR-TKIs.



SuperARMS® EGFR T790M Mutation Detection Kit

Real-time PCR Assay to detect EGFR T790M Mutation in plasma sample

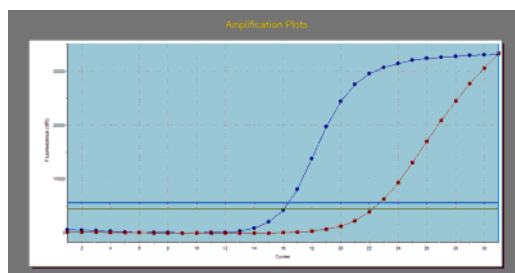
One tube - Two fluorescents labeled

FAM - T790M Mutation
HEX - Internal Control

Analytical sensitivity:

0.2% mutant allele

Real-time PCR output



■ FAM-T790M Positive ■ HEX-Internal Control

SuperARMS® EGFR Mutation Detection Kit

Real-time PCR Assay to detect 41 EGFR Mutations in plasma sample

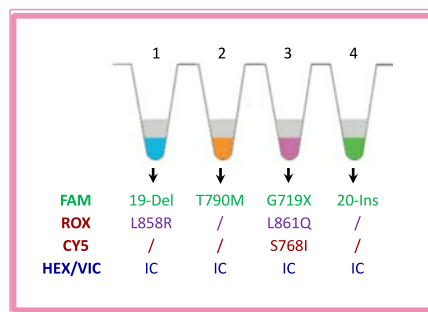
Mutations detected by the kit

Exon 18: G719C, G719A
Exon 19: 29 deletions
Exon 20: T790M, S768I, 6 insertions
Exon 21: L858R, L861Q

Analytical sensitivity:

0.2~0.8% mutant allele

Four tubes - Four fluorescents labeled



* IC: Internal Control

Kits Order Information

Kit	Cat. No.	Spec.	Tests/kit	PCR Instruments
SuperARMS® EGFR T790M Mutation Detection Kit	ADx-EG12	Bulk	24	Stratagene Mx3000P™, ABI 7500, SLAN® 96S
SuperARMS® EGFR Mutation Detection Kit	ADx-EG14	Pre-loaded	12	Stratagene Mx3000P™, ABI 7500, SLAN® 96S

To Order

Please contact our authorized distributor or Account Manager.



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