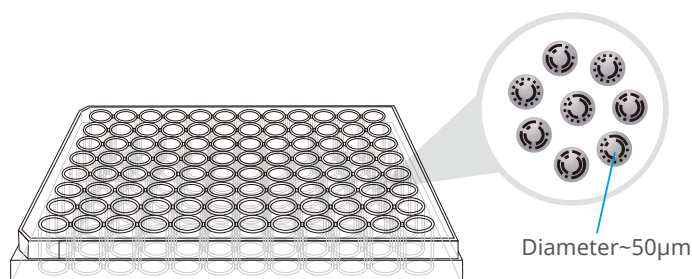


IntelliPlex™ EGFR Mutation Kit

The IntelliPlex™ EGFR Kit is a qualitative molecular assay for the detection of somatic mutations on exons 12, 18-21 of the EGFR gene. A total of 40 mutations can be identified in a single well by using the π Code™ MicroDisc and SelectAmp PCR Technologies. The high sensitivity (down to 0.1%-0.01%) of the IntelliPlex EGFR Mutation Plus Kit makes it perfect for liquid biopsy assays.

Single-Well Multiplexing

Multiplexing is made possible by using the π Code MicroDiscs technology. Each probes are individually coated on the MicroDiscs of different image patterns. The coated MicroDiscs are then pooled together for hybridization in a single-well format.



Exon	A.A Change
Exon 12	S492R
Exon 18	G719S, G719C, G719A
Exon 19	L747_S752del, L747_P753>S, E746_S752>D, L747_P753>Q, E746_S752>A, E746_S752>V, E746_T751del, E746_T751>A, L747_T751del, L747_T751del, L747_T751del, E746_T751>V, E746_T751>I, K745_E749del, E746_A750del, E746_A750del, L747_T751>P, L747_T751>S, L747_T751>Q, L747_A750>P, L747_A750>P, L747_E749del, E746_A750>IP, E746_T751>IP, E746_S752>I, E746_T751>VA, E746_P753>VS, L747_S752>Q
Exon 20	T790M, S768I, V769_D770insASV, H773_V774insH, D770_N771insG
Exon 21	L858R(T>G), L858R(TG>GT), L861Q

EGFR (40 Mutations)

▶ PRODUCT HIGHLIGHTS

- Single-well multiplex detection
- Highly sensitivity (0.1% to 0.01%)
- Low sample input (10ng-100ng)
- < 6 hrs turnaround time (sample preparation included)

▶ INSTRUMENTATIONS

- DigiPlex™ Thermocycler
- IntelliPlex™ 1000 π Code Processor
- PlexBio™ 100 Fluorescent Analyzer

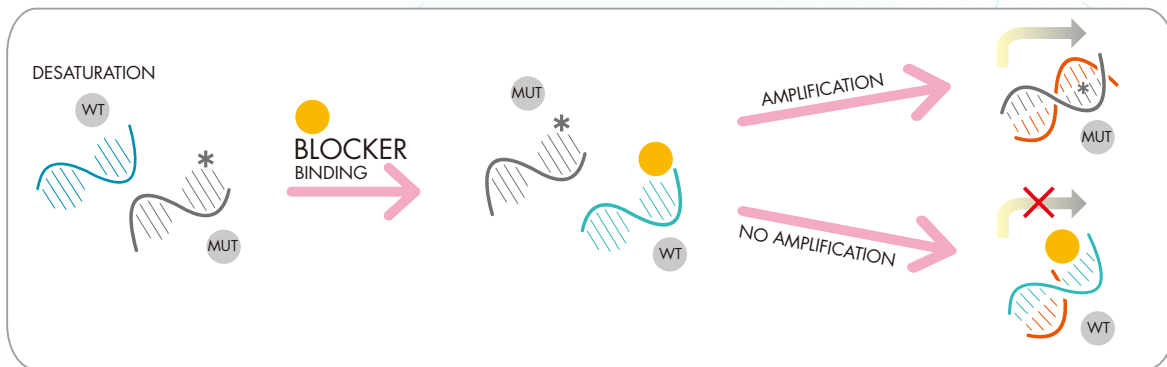
▶ SPECIMEN

- FFPE
- Liquid Biopsy**

** For Research Use Only

Select Amp PCR Technology

Selective amplification of mutated gene could be achieved by blocking wild type gene.

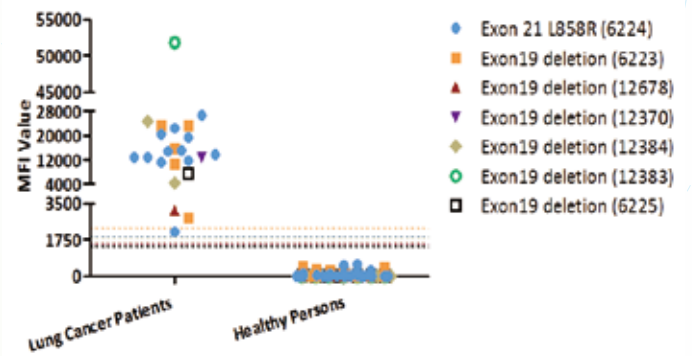


Performance Data

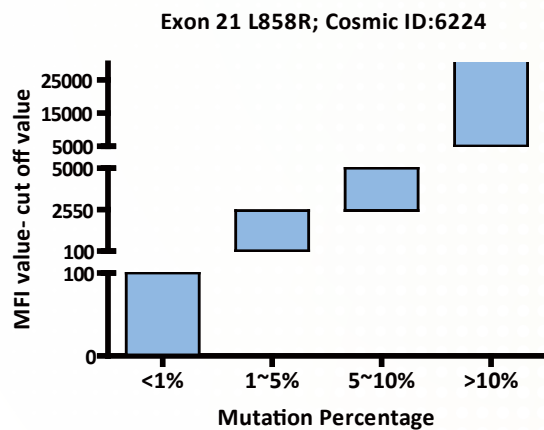
IntelliPlex EGFR Mutation Kit		Sanger Sequencing	
		+	-
+	11	0	
-	0	29	

Positive agreement = 100%
 Negative agreement = 100%
 Overall agreement = 100%

Comparison of IntelliPlex EGFR Mutation Kit with Sanger Sequencing



Comparison of Mutation-Specific Signal between Healthy and Lung Cancer Patients



Semi-Quantitative of EGFR Mutation Level in cfDNA

Patient No.	Pathology Result	Roche's cobas EGFR Mutation Kit using FFPE specimens	IntelliPlex EGFR Mutation Kit using pleural effusion specimens
1	Lung adenocarcinoma	WT	WT
2	Lung adenocarcinoma	WT	WT
3	Carcinoma	WT	WT
4	Lung adenocarcinoma	WT	WT
5	Lung adenocarcinoma	Exon 20 insertion	WT
6	Lung adenocarcinoma	Exon 20 insertion	Exon 20 insertion (Cosmic ID: 12376)
7	Lung adenocarcinoma	WT	WT
8	Lung adenocarcinoma	WT	WT
9	Lung adenocarcinoma	L858R	L858R
10	Lung adenocarcinoma	G719X	G719S
11	Lung adenocarcinoma	L858R	L858R
12	Lung adenocarcinoma	L858R	L858R

Comparison of EGFR Mutation Profile between cfDNA and FFPE from Lung Cancer Patients

Order Information

Category	Product Name	Package Volume	Cat. No.
Assay Kit	IntelliPlex™ EGFR Mutation Kit	24 rxns	82006

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