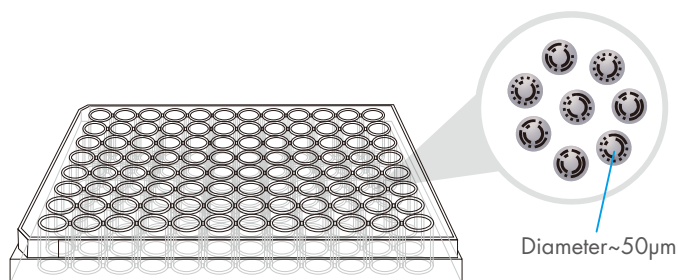


# IntelliPlex™ PIK3CA Mutation Kit

The IntelliPlex™ PIK3CA Mutation Kit is a qualitative molecular assay for the detection of somatic mutations on exons 7, 9, and 20 of the PIK3CA gene. A total of 17 mutations can be identified in a single well by using the  $\pi$ Code™ MicroDisc and SelectAmp PCR Technologies. The high sensitivity (down to 0.1%-0.01%) of the IntelliPlex PIK3CA Mutation Kit makes it perfect for liquid biopsy assays.

## Single-Well Multiplexing

Multiplexing is made possible by using the  $\pi$ 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.



## PIK3CA (17 Mutations)

Exon	A.A Change
Exon 9	E542K, E542V, E542G, E545K, E545Q, E545A, E545G, E545D, E545V, E546E, Q546K, Q546L, Q546P, Q546R
Exon 20	H1047Y, H1047L, H1047R

### ▶ 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  $\pi$ Code Processor
- PlexBio™ 100 Fluorescent Analyzer

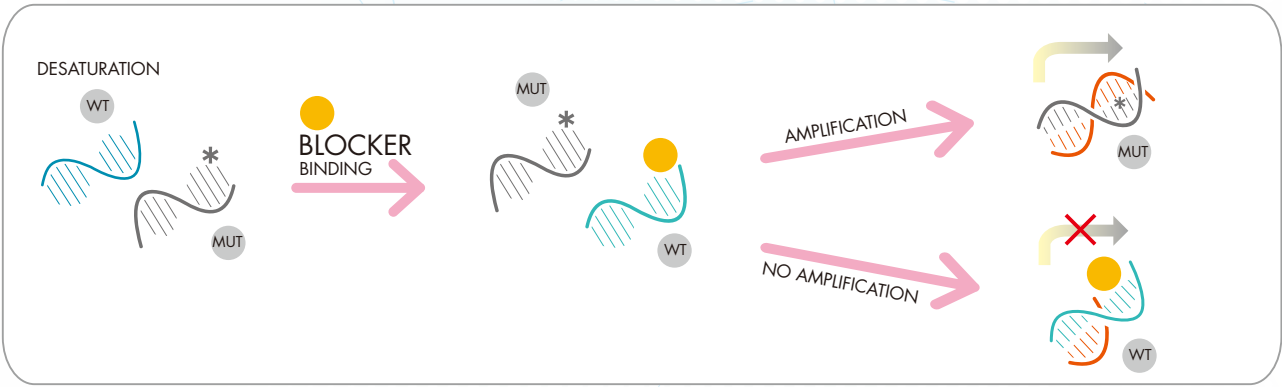
### ▶ SPECIMEN

- FFPE
- Liquid Biopsy\*\*

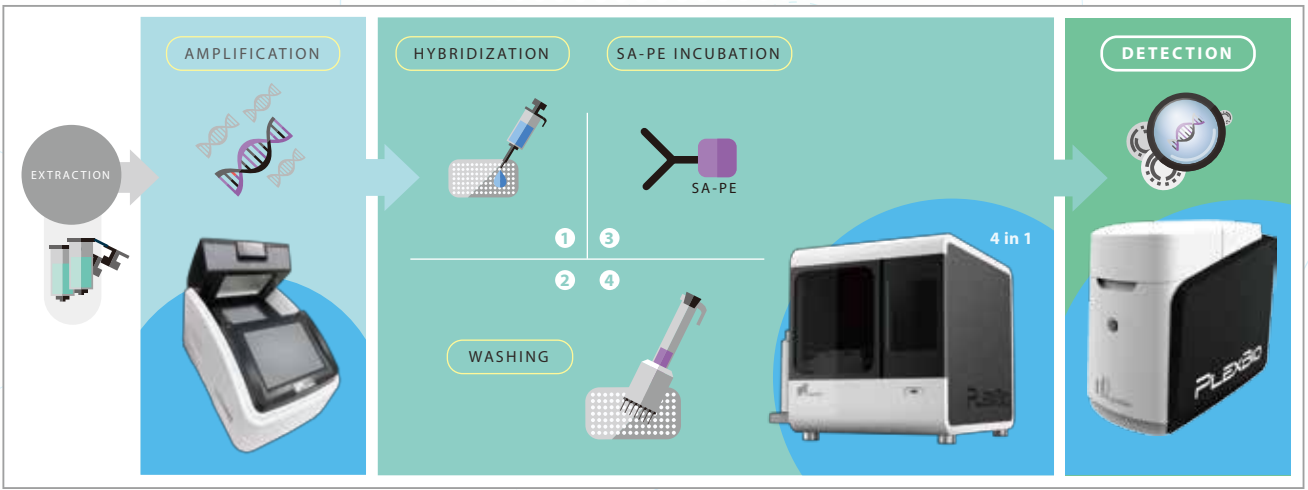
\*\*For Research Use Only

## SelectAmp PCR Technology

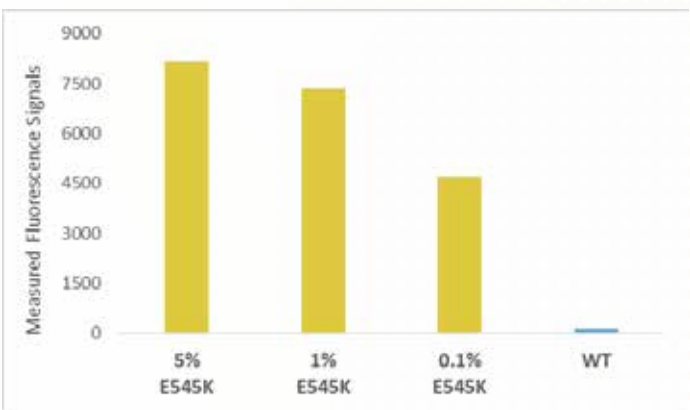
Selective amplification of mutated gene could be achieved by blocking wild type gene.



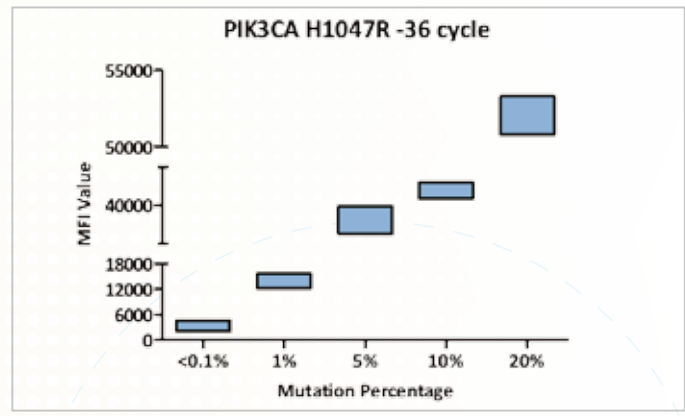
## Assay Work Flow



## High Sensitivity



An example performance of PIK3CA Mutation Kit, as illustrated by its capability to detect small amounts of mutant among the wild type DNA.



Semi-Quantitative of PIK3CA Mutation Level in cfDNA

## Order Information

Category	Product Name	Package Volume	Cat. No.
Assay Kit	IntelliPlex™ PIK3CA Mutation Kit	24 rxns	82021

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