Bring Technology to Life



Human K-ras Gene Mutation Detection Kit

(PCR-Melting Curve Method)

K-ras gene, located on chromosome 12p12.1, is one of the important oncogenes. Studies have shown that K-ras gene mutations exist in non-small cell lung cancer and colorectal cancer, and mutation of K-ras occurring at codon 12 and 13 which could cause KRAS protein to mutate and remain activated can render the drug ineffective.

The kit uses genomic DNA extracted from tumor paraffin-embedded tissue sections of human non-small cell lung cancer and colorectal cancer as test samples for the qualitative detection of 12 somatic mutations at codon 12 and 13 of K-ras gene.

This product is suitable for patients with non-small cell lung cancer and colorectal cancer before entering the individualized targeted therapy course and provides auxiliary diagnostic evidence for the individualized medication of clinical tumor-targeted drugs.



Wide Coverage

Reliable detection of Human K-ras gene Mutation, covering 12 somatic mutations at codon 12 and 13 of K-ras gene in a single run

The mutation of K-ras codon 12	The mutation of K-ras codon 13	
Gly12Ser	Gly13Ser	
Gly12Arg	Gly13Arg	
Gly12Cys	Gly13Cys	
Gly12Asp	Gly13Asp	
Gly12Ala	Gly13Ala	
Gly12Val	Gly13Val	

High Sensitivity

Sensitive to detect up to 1% mutation in K-raf gene

Internal Control

The use of internal control system in the kit can effectively prevent false negative results

High Precision

The Tm coefficient of variation was no more than 8% or Tm value difference $\leq 1^{\circ}$

More Accessible

CE marked, accessible for more countries

User-friendly

Validated on the most common qPCR machines with FAM fluorescence channel

Data Interpretation



Figure 1: 12 somatic mutations at codon 12 and 13 of K-ras gene melt curve

Ordering Information

Product Name	Human K-ras Gene M
Cat.No	
Specification	
Specimen	Tumor paraffi non-small c
Target Gene	12 somatic mu
Storage & Validity	
Applicable Equipment	Instruments with I real time PCR syste Tianlon

Assay workflow



Version 3.0





Figure 2: Internal precision reference samples melt curve

Autation Detection Kit (PCR-Melting Curve Method)

P112H

20T/Kit

in-embedded tissue sections of human cell lung cancer and colorectal cancer

utations at codon 12 and 13 of K-ras gene

-25°C~-15°C for 6 months

FAM fluorescence channels such as ABI7500 em, Linegene FQD-96A real time PCR system, ng Gentier Real-time PCR Systems



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