

Mutector I

KRAS



ATGGCTAGCTCGATCACAGATCAGTTGACC

Mutation Assay

MUTATIONS

Codon 12

Gly12Ser (GGT>AGT)
Gly12Arg (GGT>CGT)
Gly12Cys (GGT>TGT)
Gly12Asp (GGT>GAT)
Gly12Ala (GGT>GCT)
Gly12Val (GGT>GTT)

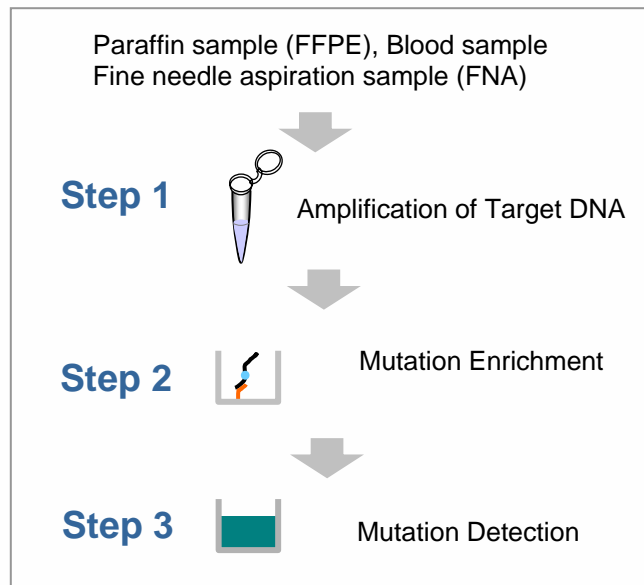
Codon 13

Gly13Arg (GGC>CGC)
Gly13Cys (GGC>TGC)
Gly13Asp (GGC>GAC)
Gly13Ala (GGC>GCC)
Gly13Val (GGC>GTC)

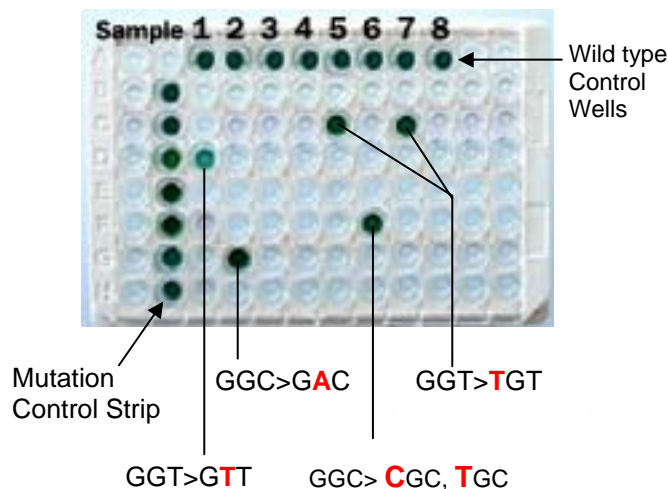
KRAS mutations are prevalent in human cancers. Most of the KRAS mutations occur in codons 12 and 13. Codon 12 and 13 mutations are missense mutations, which abolish GTPase activity resulting in constitutively activated ras signaling. Patients who carry KRAS mutations are unlikely to benefit from the anti-EGFR treatments because their tumors express a protein that signals cell proliferation without the activation of EGFR. KRAS codon 12 & 13 mutations have been found in patients with colorectal, ovarian, pancreatic and non-small cell lung cancers. This kit uses a colorimetric method that can accurately detect and differentiate 11 possible KRAS mutations occurring in codons 12 and 13.



OVERVIEW



RESULTS (KIT A)



KRAS KIT A

Well A	GGT/GGC (Wild type control)	Codon 12
Well B	GGT>AGT, CGT*	
Well C	GGT>TGT	
Well D	GGT>GTT	
Well E	GGT>GAT, GCT*	Codon 13
Well F	GGC>CGC, TGC*	
Well G	GGC>GAC	
Well H	GGC>GCC, GTC*	

* Use Kit B for Further Mutation Identification

KRAS KIT B

Well A	GGT/GGC (Wild type control)	Codon 12
Well B	GGT>AGT	
Well C	GGT>GAT	
Well D	GGT>GCT	
Well E	GGC>TGC	Codon 13
Well F	GGC>CGC	
Well G	GGC>GTC	
Well H	GGC>GCC	

ORDERING INFORMATION

Product Name	Cat. No.	Size	Description
Mutector KRAS Mutation Detection Kit A	MH1008-M12A	12 Samples	Screen and KRAS mutation in codons 12 and 13.
Mutector KRAS Mutation Detection Kit B	MH1008-M12B	12 Samples	Differentiate KRAS mutation in codons 12 and 13.

For research use only, not for use in diagnostic procedures.

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