

# **Test Description**

*KRAS* mutation test is an in vitro diagnostic test for the qualitative detection of mutations in codons 12, 13, 59, 61, 117 and 146 of *KRAS* oncogene.

## **Patient Demographic**

Name: Zarrina Dadabaeva Sex: Female Date of Birth/Age: 30 Years Disease: Poorly Differentiated Adenocarcinoma

PATIENT	REPORT DATE	BOOKING ID
Zarrina Dadabaeva	26 July 2019	011907240404

#### Clinician

Clinician Name: Dr Prashant Mehta Medical Facility: Asian Hospital Pathologist: Not Provided

## **Specimen**

Site: Caecum with Ascending Colon Sample Type: FFPE block S 3419/19F Date of Collection: 24-07-2019 Date of Booking: 24-07-2019

# **KRAS** Mutation Analysis



# No Mutation Detected in KRAS

# GENOMIC FINDINGS

No Mutation detected in *KRAS* codon 12, 13, 59, 61, 117 and 146.

#### **INTERPRETATION**

# No Mutation detected

Current data suggest that the efficacy of EGFR-targeted therapies in colorectal cancer is limited to patients with tumors lacking *KRAS* mutations.

## **METHODOLOGY**

The *KRAS* Mutation test, performed on the Biocartis Idylla<sup>M</sup> system, is an *in vitro* diagnostic test for the qualitative detection of 21 mutations (G12D, G12A, G12C, G12V, G12S, G12R, G13D, A59T/E/G, Q61H/Q61H, Q61K/Q61K, Q61R/L, K117N/K117N and A146P/T/V) in codons 12, 13, 59, 61, 117 and 146 of the *KRAS* gene. Formalin-fixed paraffin-embedded (FFPE) human cancer tissue is lysed liberate DNA for subsequent real-time PCR amplification using allele specific primers. Amplification of a *KRAS* sequence in intron4/exon5, serving as a sample processing control, is included in each run. The presence of a mutant genotype is determined by calculating the difference between the *KRAS* Sample Processing Control Cq and the Cq obtained for the *KRAS* mutant signal(s). The analytic sensitivity of this assay has been determined at < or = 5%

REFERENCES

- 1. Maertens G. et al. A solution for same-day extended RAS testing. Poster ESMO 2015
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- 3. Solassol J. et al. Multi-Center Evaluation of the Fully Automated PCR-Based Idylla™ KRAS Mutation Assay for Rapid KRAS
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- formalin-fixed, paraffin-embedded tissue samples. BMC Cancer 2017
- 5. Dario de Biase. et al. Fully automated PCR detection of KRAS mutations on pancreatic endoscopic ultrasound fine-needle aspirates. J Clin Path 2016.

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Date