

TECHNICAL SHEET IDYLLA™ PIK3CA-AKT1 MUTATION ASSAY



The Idylla™ PIK3CA-AKT1 Mutation Assay, performed on the Biocartis Idylla™ System, is a fully automated real-time polymerase chain reaction (PCR) Assay for the qualitative detection of 13 mutations in the *PIK3CA* gene (N345K, C420R, E542K, E545K, E545G, E545D (c.1635G>T), E545A, Q546K, Q546R, Q546E, H1047R, H1047L, H1047Y) and one mutation in the *AKT1* gene (E17K) in formalin-fixed, paraffin-embedded (FFPE) human tissue sections. The Idylla™ PIK3CA-AKT1 Mutation Assay covers the entire process from FFPE sample to result, including fully integrated sample preparation, liberation of nucleic acids, real-time PCR amplification and detection, and data analysis.

FEATURES

PIK3CA Mutation Detection		
Exon 4	N345K	c.1035T>A
Exon 7	C420R	c.1258T>C
	E542K	c.1624G>A
	E545A	c.1634A>C
	E545G	c.1634A>G
	E545D	c.1635G>C/T
Exon 9	E545K	c.1633G>A
	Q546K	c.1636C>A
	Q546E	c.1636C>G
	Q546R	c.1637A>G
	H1047Y	c.3139C>T
Exon 20	H1047R	c.3140A>G
	H1047L	c.3140A>T
AKT1 Mutation Detection		
Exon 2	E17K	c.49G>A

Specimen requirements

Sample Type 1 x 5 µm FFPE tissue section if tissue area 50-600 mm²
1 x 10 µm FFPE tissue sections if tissue area 25-300 mm²

Neoplastic cells ≥ 20%, if less, macrodissection is required

Total turnaround time

Time Approx. 150 minutes

Catalog number

Idylla™ PIK3CA-AKT1 Mutation Assay A0171/6



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