

## Batch Certificate For Research Use Only

### PRODUCT INFORMATION AND QUALITY CONTROL

NAME OF PRODUCT	PIK3CA-E545G 50%AF FFPE Reference Standard
DESCRIPTION	Human FFPE Reference Standard (curl)
CATALOG NUMBER	SID-000106
BATCH NUMBER	00084
MANUFACTURING CONDITIONS	<ul style="list-style-type: none"> <li>• Manufactured and sealed according to internal quality standards related to EN ISO 13485</li> <li>• At room temperature</li> </ul>
PACKAGE SIZE AND TYPE	<ul style="list-style-type: none"> <li>• 2D barcoded tube with screw cap</li> <li>• Material: Polypropylen (PP)</li> </ul>
DATE OF MANUFACTURE	27.07.2020
EXPIRY DATE	26.07.2022
FORMAT	10 µm section / 1 curl
MUTATION	PIK3CA p.E545G (COSM764*, COSV55873220*, substitution, c.1634A>G, Exon 9) <small>* GRCh38 COSMIC v91</small>
ALLELIC FREQUENCY	50.0%
QUALITY	<p>DNA quantity metrologically traceable to internationally certified reference material<sup>1</sup></p> <p>The copy number values are metrologically traceable to the natural units count 1 and ration 1 and International System of Units (SI) derived units of volume.</p>
STORAGE CONDITIONS	+ 2-8 °C
MANUFACTURING AND QUALITY CONTROL SITES	SensID GmbH Schillingallee 68, 18057 Rostock, Germany

<sup>1</sup> ERM\_AD442K  
Phone: +49 (0) 381 377 182 01

TEST METHOD AND ACCEPTANCE CRITERIA	Quality Control	Test Method	Acceptance criteria
	Cell Density	Visual	> 60 %
	Quality	Agarose gel electrophoresis <sup>2</sup> 1% Gel with fluorescent DNA stain in 1 % TAE buffer	Bright band of high-molecular-weight gDNA ≥ 20 kb
	Quantification	dsDNA measurement <sup>2</sup> : Qubit dsDNA BR Assay Kit (Invitrogen) RNA measurement <sup>2</sup> : Qubit RNA BR Assay Kit (Invitrogen)	dsDNA: > 400 ng RNA: > 400 ng
	Allelic Frequency	ddPCR Analysis <sup>2</sup> using BioRad QX200™ System	AF 50.0 % (45.0-55.0 %)

RESULTS OF ANALYSIS	Result		PASS/FAIL				
Cell Density	Visual:	> 60 %	PASS				
Quality	Bright band of high-molecular-weight gDNA ≥ 20 kb		PASS				
Quantity	599.2 ng (dsDNA) 520.2 ng (RNA)		PASS				
Allelic Frequency	<table border="1"> <thead> <tr> <th>Mutation</th> <th>AF in %</th> </tr> </thead> <tbody> <tr> <td>PIK3CA E545G</td> <td>50.5</td> </tr> </tbody> </table>		Mutation	AF in %	PIK3CA E545G	50.5	PASS
Mutation	AF in %						
PIK3CA E545G	50.5						

COMMENTS/REMARKS						
<p>Additional information:</p> <p>Theoretical DNA yield from 1 curl under the assumption of a diploid chromosome set:</p> <p>3,164 ng (dsDNA)</p> <p>Copy numbers (CN) of the respective measurements</p> <p><i>Table 1 indicates the values of the QC assays performed by SensID GmbH with a DNA input of ~10 ng. The value for the respective mutation results from the mean value of six measured replicates (CN values are rounded). CN values per nanogram extracted DNA, are based on droplet digital (ddPCR) assay counts dilution factors, and droplet volume measurements. The detection of the amount of CNs may vary depending on the assay used. Therefore, due to assay properties, there may be deviations in the observed number of copies and allele frequencies compared to the values given here.</i></p> <table border="1"> <thead> <tr> <th>Mutation</th> <th>CN wt<sup>3</sup>/ ng extracted DNA</th> <th>CN mut<sup>4</sup>/ ng extracted DNA</th> </tr> </thead> <tbody> <tr> <td>PIK3CA E545G</td> <td>198</td> <td>202</td> </tr> </tbody> </table>	Mutation	CN wt <sup>3</sup> / ng extracted DNA	CN mut <sup>4</sup> / ng extracted DNA	PIK3CA E545G	198	202
Mutation	CN wt <sup>3</sup> / ng extracted DNA	CN mut <sup>4</sup> / ng extracted DNA				
PIK3CA E545G	198	202				

<sup>2</sup> Measured after extraction with Qiagen AllPrep DNA/RNA FFPE Kit

<sup>3</sup> Wild Type

<sup>4</sup> Mutation



Bringing Precision to MD<sub>x</sub>

Released document 01 Oct 2018

Version 01

**Page 3/3**

Name and position/title of Person authorising the batch release:

Mr. Björn Nowack, Managing Director

Date of batch release: 01.08.2020

Signature batch release: Björn Nowack

This document was created electronically and is valid without a signature.

Phone: +49 (0) 381 377 182 01

Net: [www.sens-id.com](http://www.sens-id.com)  
SensID GmbH, Schillingallee 68, 18057 Rostock, Germany

Mail: [support@sens-id.com](mailto:support@sens-id.com)

VAT No: DE305142405, district court: Rostock HRB 14621  
CEO: Björn Nowack