

About Guardant360 TissueNext

Guardant360 TissueNext™ is an analytically validated tissue Comprehensive Genomic Profiling (CGP) panel that includes TMB, MSI status, and PD-L1 IHC, if ordered.

Test specifications

Sample input

FFPE tissue block or unstained slides.

Sample specifications

Tumor Area > 25 mm²
Tumor Content > 10% tumor nuclei.

Test turnaround time

2-3 weeks from sample receipt to results.



Guardant360 TissueNext panel. All four major classes of alterations detected.

Point Mutations (SNVs) and Deletion Variants (Indels) (84 Genes)								Amplifications (20 Genes)		Fusions (12 Genes)	PD-L1 status (if ordered)
<i>AKT1</i>	<i>ALK</i>	<i>APC</i>	<i>AR</i>	<i>ARAF</i>	<i>ARID1A</i>	<i>ATM</i>	<i>BRAF</i>	<i>AR</i>	<i>BRAF</i>	<i>ALK</i>	MSI status Qualitative result
<i>BRCA1</i>	<i>BRCA2</i>	<i>CCND1</i>	<i>CCND2</i>	<i>CCNE1</i>	<i>CDH1</i>	<i>CDK4</i>	<i>CDK6</i>	<i>CCND1</i>	<i>CCND2</i>	<i>BRAF</i>	
<i>CDK12</i>	<i>CDKN2A</i>	<i>CHEK2</i>	<i>CTNNB1</i>	<i>DDR2</i>	<i>EGFR</i>	<i>ERBB2</i>	<i>ESR1</i>	<i>CCNE1</i>	<i>CDK4</i>	<i>EGFR</i>	
<i>EZH2</i>	<i>FANCA</i>	<i>FBXW7</i>	<i>FGFR1</i>	<i>FGFR2</i>	<i>FGFR3</i>	<i>GATA3</i>	<i>GNA11</i>	<i>CDK6</i>	<i>EGFR</i>	<i>FGFR1</i>	
<i>GNAQ</i>	<i>GNAS</i>	<i>HNF1A</i>	<i>HRAS</i>	<i>IDH1</i>	<i>IDH2</i>	<i>JAK2</i>	<i>JAK3</i>	<i>ERBB2</i>	<i>ESR1</i>	<i>FGFR2</i>	TMB status Mutations per Megabase
<i>KEAP1</i>	<i>KIT</i>	<i>KRAS</i>	<i>MAP2K1</i>	<i>MAP2K2</i>	<i>MAPK1</i>	<i>MAPK3</i>	<i>MET</i>	<i>FGFR1</i>	<i>FGFR2</i>	<i>FGFR3</i>	
<i>MLH1</i>	<i>MPL</i>	<i>MSH6</i>	<i>MSH2</i>	<i>MTOR</i>	<i>MYC</i>	<i>MYCN</i>	<i>NF1</i>	<i>KIT</i>	<i>KRAS</i>	<i>MET</i>	
<i>NFE2L2</i>	<i>NOTCH1</i>	<i>NPM1</i>	<i>NRAS</i>	<i>NTRK1</i>	<i>NTRK2</i>	<i>NTRK3</i>	<i>PALB2</i>	<i>MET</i>	<i>MYC</i>	<i>NTRK1</i>	
<i>PDGFRA</i>	<i>PIK3CA</i>	<i>PMS2</i>	<i>PTEN</i>	<i>PTPN11</i>	<i>RAD51D</i>	<i>RAF1</i>	<i>RB1</i>	<i>MYCN</i>	<i>PDGFRA</i>	<i>NTRK2</i>	
<i>RET</i>	<i>RHEB</i>	<i>RHOA</i>	<i>RIT1</i>	<i>ROS1</i>	<i>SMAD4</i>	<i>SMO</i>	<i>STK11</i>	<i>PIK3CA</i>	<i>RAF1</i>	<i>NTRK3</i>	
<i>TERT</i> [†]	<i>TP53</i>	<i>TSC1</i>	<i>VHL</i>							<i>RET</i>	
										<i>ROS1</i>	

NSCLC guideline-recommended genes shown in bold / [†] Includes *TERT* promoter region

Analytical performance

Alteration Type	Reportable Range	Analytical Sensitivity [#]	Allelic Fraction/ Copy Number ^{##}	Analytical Specificity ^{###}
SNVs	≥1.60% MAF	≥95%	1.60%	98.9%
Indels	≥1.10% MAF	≥95%	1.10%	100%
CNAs	≥2.60 copies	≥95%	4.07 copies	100%
Fusions	≥0.16% MAF	≥95%	0.80%	100%
MSI	MSI-High	≥95%	2.5% ^{####}	100%

[#]Analytical Sensitivity defined as the Detection Rate, that is, limit of detection (LoD)

^{##}Demonstrated Allelic Fraction/Copy Number at 95% Analytical Sensitivity with 50ng DNA input

^{###}Analytical Specificity defined as 100% minus the per-sample false positive rate

^{####}Percent Tumor Fraction