

LiquidMARK™

Focused sub-panels for targeted cancer types. All sub-panels include microsatellite instability (MSI) testing.

Cancer Type	Targets Tested									
LUNG	Genes	ALK [#]	BRAF	EGFR ^{1#}	ERBB2 (HER2) [#]	KRAS [#]	MET [#]	MTOR	NRAS [#]	
		NTRK1	NTRK3	PIK3CA [#]	PIK3R1	RET	ROS1	STK11	TP53 [^]	
	Fusions	ALK	RET	ROS1	NTRK 1/2/3	PD-L1				
BREAST	Genes	AKT1	BRCA1 [#]	BRCA2 [#]	CDH1	ERBB2 (HER2) [#]	ESR1	GATA3	MYC [#]	
		NTRK1	NTRK3	PIK3CA [#]	PIK3R1	PTEN [#]	RB1	TP53 [^]		
	Fusions	NTRK 1/2/3	PD-L1							
COLON	Genes	APC	BRAF	ERBB2 (HER2) [#]	FBXW7 [#]	JAK1	KRAS [#]	MTOR	MYC [#]	
		NRAS [#]	NTRK1	NTRK3	PIK3CA [#]	PIK3R1	RAF1	TP53 [^]		
	Fusions	NTRK 1/2/3	PD-L1							
LIVER	Genes	CCND1 [#]	CDKN2A [#]	CTNNB1	ERBB2 H878Y	HNF1A	JAK1	KRAS [#]	MTOR	
		MYC [#]	NFE2L2	NRAS [#]	NTRK1	NTRK3	PIK3CA [#]	PIK3R1	PTEN [#]	
		TERT promoter	TP53 [^]							
	Fusions	NTRK 1/2/3	PD-L1							
	Viruses	Hepatitis B virus								
PANCREAS	Genes	APC	BRCA1 [#]	BRCA2 [#]	CDKN2A [#]	CTNNB1	GNAS	KRAS [#]	MYC [#]	NTRK1
		NTRK3	PIK3CA [#]	PIK3R1	SMAD4 [^]	TP53 [^]				
	Fusions	NTRK 1/2/3	PD-L1							
OVARIAN	Genes	AKT1	APC	BRAF	BRCA1 [#]	BRCA2 [#]	CTNNB1	ERBB2 (HER2) [#]	FBXW7 [#]	
		GNAS	KRAS [#]	MED12	MTOR	MYC [#]	NTRK1	NTRK3	PIK3CA [#]	PIK3R1
		PTEN [#]	RB1	TP53 [^]						
	Fusions	NTRK 1/2/3	PD-L1							
ENDOMETRIAL	Genes	BRCA1 [#]	BRCA2 [#]	CCND1 [#]	CTNNB1	ERBB2 (HER2) [#]	FBXW7 [#]	FGFR2	KRAS [#]	
		MTOR	MYC [#]	NTRK1	NTRK3	PIK3CA [#]	PIK3R1	PPP2R1A	PTEN [#]	TP53 [^]
	Fusions	NTRK 1/2/3	PD-L1							
PROSTATE	Genes	AR	BRCA1 [#]	BRCA2 [#]	KRAS [#]	MYC [#]	NTRK1	NTRK3	PIK3CA [#]	PIK3R1
		PTEN [#]	TP53 [^]							
	Fusions	TMPRSS2	NTRK 1/2/3	PD-L1						

Cancer Type	Targets Tested									
BILE DUCT	Genes	<i>AKT1</i>	<i>BRAF</i>	<i>CCND1</i> #	<i>CDKN2A</i> #	<i>ERBB2 (HER2)</i> #	<i>FGFR2</i>	<i>FGFR3</i>	<i>GNAS</i>	
		<i>HRAS</i>	<i>IDH1</i>	<i>IDH2</i>	<i>KRAS</i> #	<i>MET</i> #	<i>NRAS</i> #	<i>NTRK1</i>	<i>NTRK3</i>	<i>PIK3CA</i> #
		<i>PIK3R1</i>	<i>PTEN</i> #	<i>SMAD4</i> ^	<i>STK11</i>	<i>TP53</i> ^				
	Fusions	<i>FGFR2</i>	<i>FGFR3</i>	<i>NTRK 1/2/3</i>		<i>PD-L1</i>				
GASTRIC AND EOSOPHAGEAL	Genes	<i>APC</i>	<i>CDH1</i>	<i>CDKN2A</i> #	<i>CTNNB1</i>	<i>ERBB2 (HER2)</i> #	<i>FBXW7</i> #	<i>JAK1</i>	<i>KRAS</i> #	
		<i>NOTCH1</i>	<i>NTRK1</i>	<i>NTRK3</i>	<i>PIK3CA</i> #	<i>PIK3R1</i>	<i>SMAD4</i> ^	<i>STK11</i>	<i>TP53</i> ^	
	Fusions	<i>NTRK 1/2/3</i>		<i>PD-L1</i>						
GIST	Genes	<i>BRAF</i>	<i>HRAS</i>	<i>KIT</i> #	<i>KRAS</i> #	<i>NRAS</i> #	<i>NTRK1</i>	<i>NTRK3</i>	<i>PDGFRA</i> #	<i>PIK3CA</i> #
		<i>PIK3R1</i>	<i>TP53</i> ^							
	Fusions	<i>NTRK 1/2/3</i>		<i>PD-L1</i>						
HEAD AND NECK	Genes	<i>CCND1</i> #	<i>CDKN2A</i> #	<i>FBXW7</i> #	<i>HRAS</i>	<i>NOTCH1</i>	<i>NTRK1</i>	<i>NTRK3</i>	<i>PIK3CA</i> #	<i>PIK3R1</i>
		<i>PTEN</i> #	<i>TP53</i> ^							
	Fusions	<i>NTRK 1/2/3</i>		<i>PD-L1</i>						
MELANOMA	Genes	<i>BRAF</i>	<i>CDKN2A</i> #	<i>CTNNB1</i>	<i>GNA11</i>	<i>GNAQ</i>	<i>KIT</i> #	<i>MAP2K1 (MEK1)</i>		
		<i>MAPK1 (ERK2)</i>	<i>MTOR</i>	<i>NRAS</i> #	<i>NTRK1</i>	<i>NTRK3</i>	<i>PIK3CA</i> #	<i>PIK3R1</i>	<i>PTEN</i> #	
		<i>RAF1</i>	<i>TERT promoter</i>	<i>TP53</i> ^						
	Fusions	<i>NTRK 1/2/3</i>		<i>PD-L1</i>						
NOSE	Genes	<i>ATM</i>	<i>CDKN2A</i> #	<i>FBXW7</i> #	<i>MED12</i>	<i>NOTCH1</i>	<i>NTRK1</i>	<i>NTRK3</i>	<i>PIK3CA</i> #	<i>PIK3R1</i>
		<i>TP53</i> ^								
	Fusions	<i>NTRK 1/2/3</i>		<i>PD-L1</i>						
	Virus	Epstein-Barr Virus								
UROTHELIAL	Genes	<i>ERBB2 (HER2)</i> #	<i>FGFR2</i>	<i>FGFR3</i>	<i>HRAS</i>	<i>NTRK1</i>	<i>NTRK3</i>	<i>PIK3CA</i> #	<i>PIK3R1</i>	
		<i>PTEN</i> #	<i>TERT promoter</i>	<i>TP53</i> ^						
	Fusions	<i>FGFR2</i>	<i>FGFR3</i>	<i>NTRK 1/2/3</i>		<i>PD-L1</i>				

Targeted regions are selected for sequencing to maximize detections of known hotspot mutations. List available on request.

Includes detection of gene copy number changes. † Includes sequencing of EGFR mutations in exons 18-21 such as T790M and C797S. ^ Full coverage.

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