

Sample Requirement

Sample Type		Quantity Requirements	Quality Requirements	Transportation Conditions	
Fresh Tissue	Surgery	≥0.5cm ³	≥50% tumor content by area recommended (no less than 20%).Central area of tissue first. ≤10% necrotic	Room temperature	
Tresii Tissue	Puncture	>2 needles,length >1cm	content.		
Paraffin Section	Surgery	≥10 unstained slides	≥50% tumor content by area recommended (no less than 20%). Central area of tissue first. ≤10% necrotic	Room temperature	
	Puncture	≥15 unstained slides	content.≤5µm section thickness, > 5*5mm section area. Preserved within 1 year. Provide at least 1 HE stained slide.		
Paraffin Block		1-2 blocks	\geqslant 50% tumor content by area recommended (no less than 20%).Central area of tissue first. \le 10% necrotic content.Preserved within 1 year. Provide at least 1 HE stained slide.	Room temperature	
Peripheral Blood		10ml	No serious coagulation,hemolysis	Cell-Free DNA BCT 6-37 °C (<72 hours)	
Peripheral Blood(ctDNA)		3-5ml	No coagulation, hemolysis	EDTA Tube 2-8 °C Cold-Chain	
Thoracic and Abdominal Fluid		>10ml	1.Store in a sterilized sealed bottle at 2-8'C. Mix if portioned 2.Centrifuge at 2000 rpm for 12 minutes. Discard supemat, antkeep cell precipitate about the size of a soybean.	Short distance: ice pack Long distance: dry ice	



Indication Patients Clinical Significance

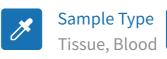
Applicable People	Clinical Significance		
Newly Diagnosed Patients	Assist in Precision MedicationSelection		
Post Operative Patients Requiring Drug Therapy	Assist in Comprehensive Post Operative Medication Selection/ Prognosis Assessment		
Patients Experiencing Relapse, Drug Resistance, or Metastasis During Treatment	Identify Drug Resistance Mechanisms Adjust Treatment Plans, Personalize Medication Selection		
Late-stage Patients After Failure of Multiline Therapy	Offer More Clinical Treatment Chance		



Z-Capture™ Pan-Cancer 120 Gene Detection Kit









Product Features						
Product Name	Z-Capture™ Pan-Cancer 120 Gene Detection Kit					
Sample Type	Fresh Tissue, FFPE	cfDNA				
Input DNA	50ng	30ng				
Numbers of Gene	140					
Types of Variants	SNV, Short InDel, CNV, MSI, Fusion					
Sequencing Platform	Illumina/MG	I/Genemind				
Read Length	PE 150					
Sequencing Depth	≥1500X	≥10000X				
Raw Data	2G	10G				

1. Comprehensive guidance for targeted therapies

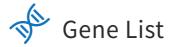
- Detect 140 cancer-relevant genes in one test which cover targeted drugs, toxicity and sensitivity of chemotherapy, immune signaling pathway and genetic susceptibility of tumors. Provide comprehensive insights to help guide informed, personalised treatment decisions
- Detect HRR-related core genes, assess patients' HRD status, and help inform the use of PARP inhibitors.

2. Reporting MSI and gene alterations predicting immunotherapy efficacy to help inform eligibility for PD-1/PD-L1 inhibitors

- Microsatellite instability assay (MSI)
 Tumor patients with microsatellite instability are more likely to benefit from PD-1
- Mismatch repair (MMR)-related gene testing
 Tumor patients with mismatch repair abnormalities (dMMR) can choose PD-1 ISA if standard therapy fails.

3. Accurate and high Sensitivity

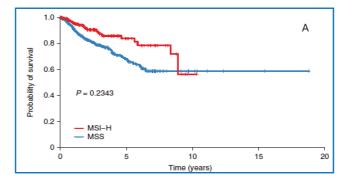
ctDNA limit of detection (LoD) = 0.5% (30ng input) . FFPE sample: LoD=2% for hotspots

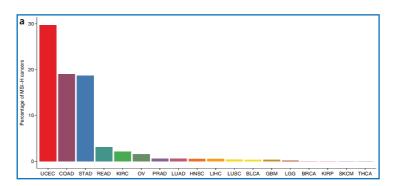


ABRAXAS1	BMPR1A	CDKN2A	EMSY	GNA11	KIT	MYC	PIK3CA	RB1	SPOP
AKT1	BRAF	CDKN2B	EPCAM	GNAQ	KRAS	NBN	PIK3R1	RET	SRY
ALK	BRCA1	CHEK1	ERBB2	GNAS	MAP2K1	NF1	PMS1	RHOA	STK11
AMER1	BRCA2	CHEK2	ESR1	GREM1	MAP3K1	NFE2L2	PMS2	ROS1	TCF12
APC	BRIP1	CREBBP	FBXW7	HDAC2	MDM2	NOTCH2	POLE	RUNX1	TERT
AR	CBFB	CSMD1	FGF19	HOXB13	MDM4	NRAS	PREX2	SDHA	TGFBR2
ARID1A	CBL	CSMD3	FGF3	HRAS	MED12	NTRK1	PTCH1	SDHB	TMPRSS2
ARID2	CCND1	CTNNB1	FGF4	IDH1	MET	NTRK2	PTEN	SDHC	TP53
ATM	CD274	CYP2D6	FGFR1	IDH2	MLH1	NTRK3	RAD50	SDHD	TSC1
ATRX	CDA	CYP4F3	FGFR2	JAK1	MRE11	PALB2	RAD51B	SETD2	TSC2
B2M	CDH1	DDR2	FGFR3	JAK2	MSH2	PBRM1	RAD51C	SF3B1	TTK
BAP1	CDK12	DPYD	FLT3	KDR	MSH6	PDCD1	RAD51D	SMAD4	UGT1A1
BARD1	CDK4	EGFR	FOXA1	KEAP1	MTOR	PDGFRA	RAD54L	SMARCA4	VEGFA
BCL2L11	CDK6	EIF1AX	GATA3	KIF6	MUTYH	PDGFRB	RAF1	SOX2	VHL

Microsatellite Instability (MSI). A Predictive Marker for Immunotherapy in Various Cancer Types

In May 2017, Keytruda was approved by the FDA as the first anticancer drug based on MSI-H/dMMR biomarkers to treat the patients with MSI-H or dMMR solid tumors, regardless of tumor type. The proportion of MSI-H in different cancer types (as shown in Figure B).





Patient survival aggregated for endometrial, stomach, colon, and rectal cancers, stratified by inferred MSI status (MSS n=864, MSI-H n=241).



