

# GTC-Hematology PLUS

GTC-Hematology Plus combine expression and fusion with mutations analysis in DNA and RNA. This is a comprehensive evaluation of all hematologic neoplasms. However, it is especially recommended for:

**Acute lymphoblastic Leukemia (ALL):** This comprehensive assay is designed to confirm the diagnosis of Ph-ALL and Ph-like ALL and distinguish them from other types of ALL. It can be used for diagnosis as well as for monitoring. Ph-Like ALL is detected in 20% to 25% of adult ALL and in 15% of pediatric ALL. Diagnosis of Ph+-ALL and Ph-like ALL is very important because TKI therapy can be helpful in most of these patients. This assay can determine most of the mutations, translocations and expression of genes (CRLF2) associated with Ph+ ALL and Ph-like ALL.

**Diffuse Large B-cell Lymphoma (DLBCL) and other Lymphoma:** This assay can provide very valuable information for the management and monitoring of patients with DLBCL. It can distinguish between ABC and GCB and can help in the diagnosis of double hit lymphoma. The assay is also useful for follicular lymphoma and T-cell neoplasms.

**Acute Myeloid Leukemia (AML):** Translocations in AML are very important for diagnosis, prognosis and selecting therapy. This comprehensive testing can provide complete evaluation of fusion mRNA and mutations. It also helps in determining diagnosis in acute leukemia with ambiguous phenotype.

#### Specimen Requirements:

- Bone marrow: 2 mL. EDTA tube is preferred.
- Peripheral blood: 5-10 mL. EDTA tube is preferred.
- Fresh Tissue
- FFPE: 1 H&E slide and 8-10 unstained slides, 5-7 microns of BM clot or tissue fixed with 10% NBF fixative. Alternatively, the FFPE block of the BM clot can be sent for sectioning in our Lab.

#### Shipping:

Ship using cold pack. The cold pack should not directly contact Blood or BM specimen. Ship As soon as sample collected with overnight delivery.

#### Turn Around Time:

7-10 days

#### Tested Genes

Hematology Genes Tested for Abnormalities in coding sequence												
ABL1	BCL2	CBL	CDKN2C	DICER1	FAS	IDH2	KMT2A	MPL	PAX5	PTCH1	SMAD2	TGFB2
AKT1	BCL2L1	CBLB	CEBPA	DNMT3A	FBXW7	IGF1R	KMT2B	MRE11A	PBRM1	PTEN	SMAD4	TP53
AKT2	BCL6	CBLCL	CHEK1	EP300	FLT3	IKZF1	KMT2C	MTOR	PDGFRA	PTPN11	SMARCA4	TSC1
AKT3	BCOR	CCND1	CHEK2	ERG	GATA1	IKZF3	KMT2D	MUTYH	PDGFRB	RAD21	SMARCB1	TSC2
ALK	BCORL1	CCND3	CIC	ETV6	GATA2	IRF4	KRAS	MYC	PHF6	RAD50	SMC1A	TSHR
AMER1	BCR	CD274	CREBBP	EZH2	GATA3	JAK1	MAP2K1	MYD88	PIK3CA	RAD51	SMO	WT1
APC	BIRC3	CD79A	CRLF2	FAM175A	GEN1	JAK2	MAP2K2	NFKBIA	PIK3R1	RB1	SOCS1	ZNF217
ARID1A	BLM	CD79B	CSF1R	FAM46C	GNAQ	JAK3	MAP2K4	NOTCH1	PIK3R2	RHOA	SRC	ZRSR2
ARID1B	BRAF	CDH1	CSF3R	FANCA	GNAS	KAT6A	MAP3K1	NOTCH2	PIM1	RNF43	SRSF2	MEF2B
ARID2	BRCA1	CDK12	CTNNA1	FANCC	H3F3A	KDM5C	MAP3K14	NOTCH3	PLCG1	RUNX1	STAG2	
ASXL1	BRCA2	CDK4	CTNNA1	FANCD2	HNF1A	KDM6A	MAPK1	NPM1	POLD1	SDHB	STAT3	
ATM	BTK	CDK6	CUX1	FANCE	HOXB13	KDR	MCL1	NRAS	POLE	SETBP1	STK11	
ATRX	CALR	CDKN2A	CXCR4	FANCF	HSP90AA1	KEAP1	MDM2	NSD1	PPM1D	SETD2	TERT	
B2M	CARD11	CDKN2B	DDR2	FANCG	IDH1	KIT	MDM4	PALB2	PPP2R1A	SF3B1	TET2	

Fusion/Expression																
ABL1	ALK	BRAF	CREBBP	EPOR	ETV5	FGFR2	FOXO1	JAK1	MAP3K1	NOTCH1	NUP214	PCM1	PICALM	RET	RUNX1T1	TCF3
ABL2	BCL1	CBFB	CRLF2	ERG	ETV6	FGFR3	FUS	JAK2	MECOM	NTRK1	NUP98	PDGFRA	PML	RHOA	SS18	TCF3
AKT3	BCL2	CBL	CSF1R	ETV1	EWSR1	FIP1L1	GLI1	KMT2A	MYC	NTRK2	P2RY8	PDGFRB	PTK2B	ROS1	STAT6	TFG
ALK	BCL6	CIC	EGFR	ETV4	FGFR1	FLT3	IKZF3	KRT18P6	MYH9	NTRK3	PBX1	PD-L1	RARA	RUNX1	TAL1	TYK2



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