

# Lymphoma

## NGS Panel

Next Generation Sequencing based test to detect Single Nucleotide Variations (SNVs), Small Insertions Deletions (InDels) and Fusions (gene rearrangements) in all Lymphoma types.

### Biomarkers in Lymphoma

#### Burkitt's Lymphoma

**SNVs/InDels** - TCF3, MYC, ID3  
**Fusions** - MYC, TCF3

#### Follicular Lymphoma

**SNVs/InDels** - EZH2, ARID1A, MEF2B, EP300, CREBBP, CARD11  
**Fusions** - FOXO1

#### Non-Hodgkin's Lymphoma

**SNVs/InDels** - TNFAIP3, KMT2C, PIK3R1, SMARCB1  
**Fusions** - BCL1

#### Diffuse large B cell Lymphoma

**SNVs/InDels** - TP53, MYD88, CD79A, CARD11, TNFAIP3, EZH2, CDKN2A, NOTCH1, NOTCH2, CREBBP, ITPKB, KRAS, PIK3CD, PIK3CG, PIM1, PTEN, SOCS1, KMT2D, CCND1  
**Fusions** - MYC, CCND3, BCL2, BCL6, PRDM1/BLIMP1, IGH

#### Mantle Cell Lymphoma

**SNVs/InDels** - TP53, NOTCH2, NOTCH1, ATM, MAP2K1, SOX11, CCND1, CDKN2A, BIRC3, BTK, PLCG2, TRAF2  
**Fusions** - BCL2, CCND1, CCND2, IGH

Types of Lymphoma	SNVs/InDels	Fusions
Anaplastic large-cell lymphoma ALK-ve	IRF4, IDH2, TET2, RHOA, JAK1, STAT3	DUSP22, IRF4
Anaplastic large-cell lymphoma ALK+ve	--	ALK
B-cell Lymphoma	ALK, IRF4	MYC, ALK
Chronic lymphocytic leukemia/Small lymphocytic lymphoma	TP53, NOTCH1, NOTCH2, SF3B1, ATM, BIRC3, BTK, PLCG2, POT1, B2M, FBXW7	
Cutaneous T- cell lymphoma	CDKN2B	
Hairy cell leukemia	CD58, CD79B, GNA13, BRAF, MAP2K1	
High grade b- cell lymphoma not otherwise specified	--	MYC, BCL2, BCL6
HSTCL-Hepatosplenic Tcell lymphoma	SETD2	
Lymphoplasmic lymphoma	MYD88, CXCR4, TP53, BTK, CARD11, PLCG2	
Marginal zone B-cell lymphoma	PTPRD, BTK, NOTCH2, PLCG2	KLF2
Primary mediastinal large B- cell	STAT6, XPO1, CXCR4	CIITA
Peripheral T-cell Lymphoma	TET2, IDH1, IDH2, DNMT3A, RHOA, CD58, TNFAIP3, GATA3, TBX21, KDM6A, ARID1B, KMT2A, ARID2, APC, CHD8, ZAP70, NF1, TNFRSF14, TRAF3, BCORL1, TP53, TP63, ATM, CREBBP, KMT2D	FOXO1, ITK, CTL4
Peripheral T-cell lymphoma not otherwise specified	DNMT3A, KDM6A, KMT2D	KMT2A
T-cell large granular lymphocytic leukaemia	STAT3, STAT5B	