

SUPPLEMENTARY INFORMATION

Mutational Analysis of Extranodal NK/T-Cell Lymphoma Using Targeted Sequencing with a Comprehensive Cancer Panel

**Seungkyu Choi¹, Jai Hyang Go¹, Eun Kyung Kim², Hojung Lee²,
Won Mi Lee², Chun-Sung Cho³, Kyudong Han^{4*}**

¹Department of Pathology, Dankook University College of Medicine, Cheonan 31116, Korea, ²Department of Pathology, Eulji Medical Center, Eulji University School of Medicine, Seoul 01830, Korea, ³Department of Neurosurgery, Dankook University College of Medicine, Cheonan 31116, Korea, ⁴Department of Nanobiomedical Science, BK21 PLUS NBM Global Research Center for Regenerative Medicine, Dankook University, Cheonan 31116, Korea

IDH1	KRAS	MLL1	NFKB2	PRKCB	RARA	SQCS1	TOP1
IDH2	LAMP1	MLL	NIN	PRKCA	RB1	SOX11	TP53
IGF1R	LCK	MLL2	NKX2-1	PRKCB	RECOL4	SOX2	TPR
IGF2	LIFR	MLL3	NLRP1	PRKCG	REL	SRC	TRIM4
IGF2R	LPHN3	MLL7B	NOTCH1	PRKCG	RET	SSX1	TRIM3
IKBKB	POT1	MMP2	NOTCH2	PIK3R1	RHOH	STK11	TRIP11
IKBKE	LPP	MN1	NOTCH4	PIK3R2	RNASEL	STK34	TRRAP
IKZF1	LAP1B	MPL	NPM1	PIK1	RNF2	SUFU	TSC1
IL2	LTF	MRE11A	NRAS	PIK4D1	RNF213	SYK	TSC2
IL21R	LTX	MSH2	NSD1	PLA01	R051	SINE1	TSR1
IL4ST	MAF	MSH4	NTRK1	PLC01	RPS4KA2	TAF1	UBR5
IL7R	MAFB	MTOR	NTRK3	PLEKHA5	RBM1	TAF1L	UGT1A1
INHA	MAGEA1	MTR	NUMA1	PML	RUNB1	TAL1	USP9X
IRF4	MAGI1	MTRR	NUP214	PMS1	RUNX1T1	TBK2	VHL
IRS2	MAL71	MUC1	NUP98	PMS2	SAMD9	TCF12	WAS
ITGA10	MAML2	MUTYH	PAK3	POU5F1	SBS5	TCF3	MNSC1
ITGA9	MAP2K1	MIB1	PALB2	PPARG	SDHA	TCF7L1	WRN
ITGB2	MAP2K2	MYC	PARP1	PPP2R1A	SDHB	TCF7L2	WT1
ITGB3	MAP2K4	MYCL1	PAK3	PRDM1	SDHC	TCL1A	XPA
JAK1	MAP3K7	MYCN	PAK5	PRKAR1A	SOHD	TET1	XPC
JAK2	MAPK1	MYO8B	PAK7	PRKDC	SEPT9	TET2	XPO1
JAK3	MAPK8	MYH11	PAK8	PPP1	SETD2	TFEB	XRC2
JUN	MARK1	MYH9	PBRM1	PITDH1	SF3B1	TGFBP2	ZNF36
KAT5A	MARK4	NBN	PBX1	PITEN	SOX1	TGM7	ZNF521
KAT5B	MBO1	NC0A1	PDE4DP	PITSS2	SH2D1A	TIBS1	
KDM5C	MCL1	NC0A2	POGFB	PTPN11	SMAD2	TIMP3	
KDM4A	KDM4	NC0A4	POGFRA	PTPRD	SMAD4	TLR4	
KDR	KDM4	NF1	POGFRB	PTPRT	SMARCA4	TLX3	
KEAP1	MEN1	NF2	PER1	RAD50	SMARCB1	TNFAIP3	
KIT	MET	NFE2L2	PGAP3	RAF1	SMO	TNFRSF14	
KLF4	MTF	NFKB1	PHOX2B	RALGDS	SMU1	TNN2	

ABL1	AURKA	BNP1A	CDK4	CTNNB1	EPHB4	FANCD2	FZR1
ABL2	AURKB	BRAF	CDK4	CYLD	EPHB4	FANCF	GAPD
ACVR2A	AURKC	BRD3	CDK8	CYP2C19	ERBB2	FANCG	GATA1
ADAMTS20	AVL	BRIP1	CDKN2A	CYP2D6	ERBB3	FAS	GATA2
AFF1	BAI3	BTX	CDKN2B	DAXX	ERBB4	FBXW7	GATA3
AFF3	BAP1	BUB1B	CDKN2C	DCC	ERCC1	FGFR1	GDNF
AKAP9	BCL10	CARD11	CEBPA	DOB2	ERCC2	FGFR2	GNA11
AKT1	BCL11A	CASC5	CHEK1	DDIT3	ERCC3	FGFR3	GNAQ
AKT2	BCL11B	CSL	CHEK2	DOR2	ERCC4	FGFR4	GNAS
AKT3	BCL2	CCND1	CIC	DEK	ERCC5	FH	GPR124
ALK	BCL2L1	CCND2	CKS1B	DICER1	ERG	FLCN	GRM8
APC	BCL2L2	CCNE1	CMPK1	DNM3A	ESR1	FLI1	GUCY1A2
AR	BCL3	CD79A	COL1A1	DPYD	ETS1	FLT1	HCAR1
ARID1A	BCL4	CD79B	CRBN	DST	ETV1	FLT3	HIF1A
ARID2	BCL9	CDC73	CREB1	EGFR	ETV4	FLT4	HLF
ARNT	BCR	CDH1	CREBBP	EML4	EXT1	FN1	HNF1A
ASXL1	BIRC2	CDH11	CRKL	EP300	EXT2	FOXK2	HOOV3
ATF1	BIRC3	CDH2	CRTC1	EP400	EZH2	F0N1	HRAS
ATM	BIRC5	CDH20	CSFTR	EPHA2	FAM123B	F0N3	HSP90A1
ATR	BLM	CDH5	C5MD3	EPHA7	FANCA	F0N1	HSP90AB1
ATRX	BLNK	CDK2	CTNNA1	EPHB1	FANCC	F0N4	ICK

Supplementary Fig. 1. Ion AmpliSeq Comprehensive Cancer Panel target gene list.