Pathway alterations in primary GBM cell lines

Pathway	Gene	BAH1	FPW1	HW1	JK2	MMK1	MN1	PB1	RKI1	RN1	SB2b	SJH1	WK1
RTK	EGFR	vIII		A289V							A289V H304Y		
	PDGFRA												
	MET						E168D			T992I	C800F	H289R	
	FGFR3												
	FGFR2												
	FGFR1												
	EPHA2											V589M R721Q	
PI3K	PIK3CA										Y1021H		H1047Y
	PIK3R1												
	PIK3C2G						P129T	X1446S			A2T		
	PIK3CG												
	PIK3CB												
	PIK3C2B												
	PIK3C2A	T1415A											
	PIK3R2												
	PTEN	**V133I**	**R130Q spl jnct**			**F56V**		**R130***					
MAPK	NF1		spl jnct									spl jnct	
	BRAF												
	MYC												
P53	TP53				**R110L**							**G105C**	
	MDM2										W329C		
	MDM4												
RB1	CDKN2A												
	CDKN2B												
	RB1												
	CDK4												
	CDK6												
Chromatin modifiers	IDH1					Y183C					V178I		
	ATRX								D808G				
	SETD2								R472H		T451A		E670K
	ACVR1												
	H3F3A												
	HIST1H3B												
	HIST1H3C												

homozygous deletion
heterozygous deletion
amplification
gain

Genomic profiling of primary GBM cell lines. Single nucleotide variants (SNVs), intragenic deletions and gene copy number changes in genes in pathways frequently affected by genomic changes in GBM detected in the primary GBM cell lines. SNVs shown in bold are homozygous, otherwise heterozygous. Blanks indicate wild type genes.