NSCLC Cell Line	Mutational Status	LKB1 Mutation	LKB1 Protein Presence	n	Mean IC_{50} Compound 1 (μM)
A549	Mutant	p.Q37*	Neg	2	0.772
H1395	Mutant	p.E57fs*7	Neg	2	0,599
H1734	Mutant	p.M51fs*14	Neg	2	1.551
H1755	Mutant	p.P281fs*6	Neg	3	0.374
H1993	Mutant	p.E199*	Neg	2	0.504
H2030	Mutant	p.E317*	Neg	2	2.256
H2122	Mutant	p.P281fs*6	Neg	3	0.403
H23	Mutant	p.W332*	Neg	2	2.205
H460	Mutant	p.Q37*	Neg	2	0.373
H838	Mutant	p.T212fs*75	Neg	3	0.489
H1568	Unknown		Neg	3	0.226
H1944	Unknown		Neg	3	0.318
H2110	Unknown		Neg	3	0.456
H2444	Unknown		Pos	3	0.778
H647	Unknown		Neg	2	1.355
CALU-1	WT		Pos	2	4.744
CALU-3	WT		Pos	3	0.302
CALU-6	WT		Pos	2	4.52
H1299	WT		Pos	2	1.227
H1437	WT		Neg	3	0.975
H1563	WT		Neg	3	>30
H1650	WT		Pos	3	>30
H1693	WT		Pos	3	0.639
H1703	WT		Pos	2	0.917
H1792	WT		Pos	3	0.382
H1838	WT		Pos	3	>30
H1975	WT		Pos	3	0.568
H2009	WT		Pos	3	>30
H2228	WT		Pos	3	0.264
H226	WT		Pos	2	1.747
H2291	WT		Pos	3	>30
H28	WT		Pos	3	>30
H358	WT		Pos	2	1.418
H441	WT		Pos	3	>30
H520	WT		Pos	2	0.499
H596	WT		Pos	3	2.196
H650	WT		Pos	3	>30
H727	WT		Neg	3	0.288
HOP-62	WT		Pos	3	2.007
HOP-92	WT		Pos	3	>30
SK-LU-1	WT		Pos	3	0.402
SW-1573	WT		Pos	3	>30

FIG. 1A

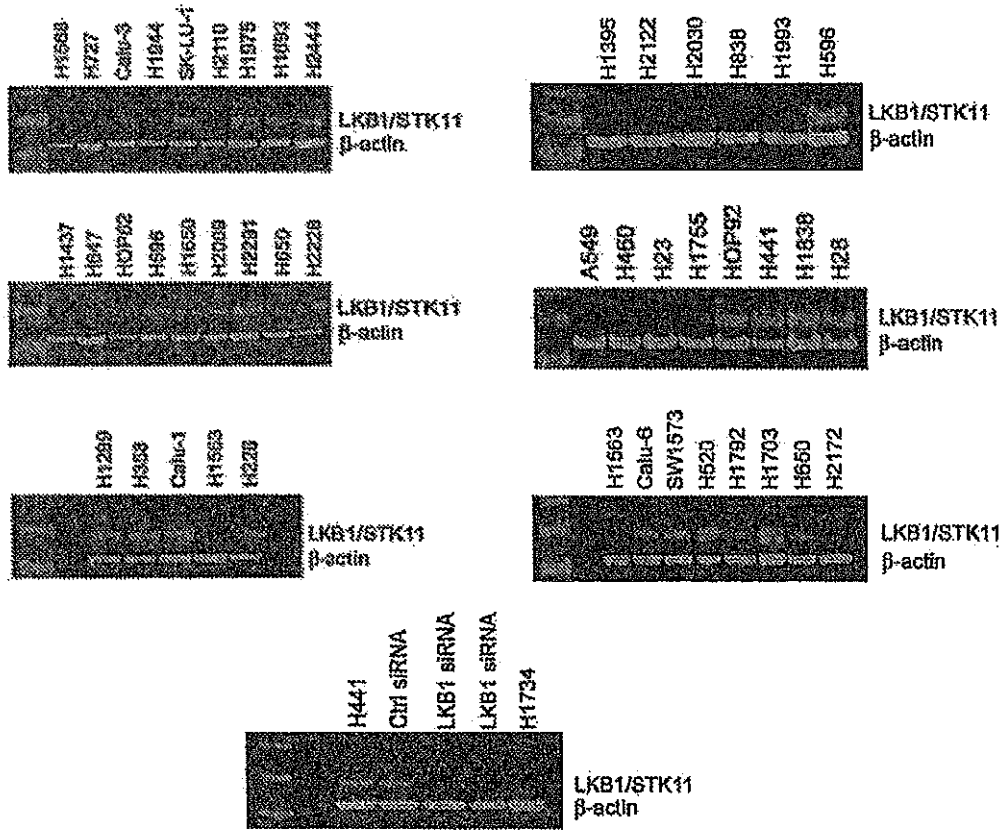

H1568
H727
Calu-3
H1944
SK-LU-1
H2110
H1975
H1993
H2444
LKB1/STK11
β-actin
H1395
H2122
H2030
H838
H1993
H596
LKB1/STK11
β-actin
H1437
H647
HOP62
H596
H1650
H2009
H2291
H650
H2228
LKB1/STK11
β-actin
A549
H460
H23
H1755
HOP92
H441
H1838
H28
LKB1/STK11
β-actin
H1299
H838
Calu-1
H1563
H226
LKB1/STK11
β-actin
H1563
Calu-6
SW1573
H520
H1792
H1703
H650
H2172
LKB1/STK11
β-actin
H441
Ctrl siRNA
LKB1 siRNA
LKB1 siRNA
H1734
LKB1/STK11
β-actin

FIG. 1B

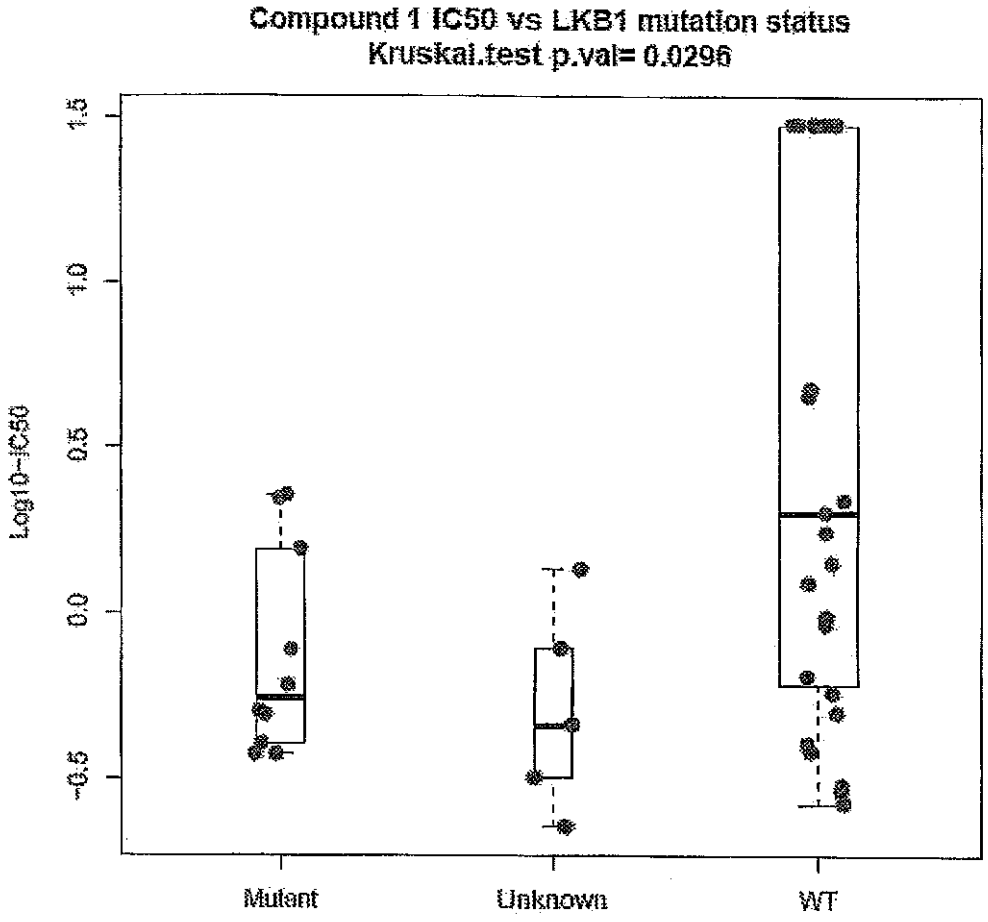

Compound 1 IC50 vs LKB1 mutation status
Kruskal.test p.val= 0.0296
Log10-IC50
-0.5
0.0
0.5
1.0
1.5
Mutant
Unknown
WT

FIG. 2A

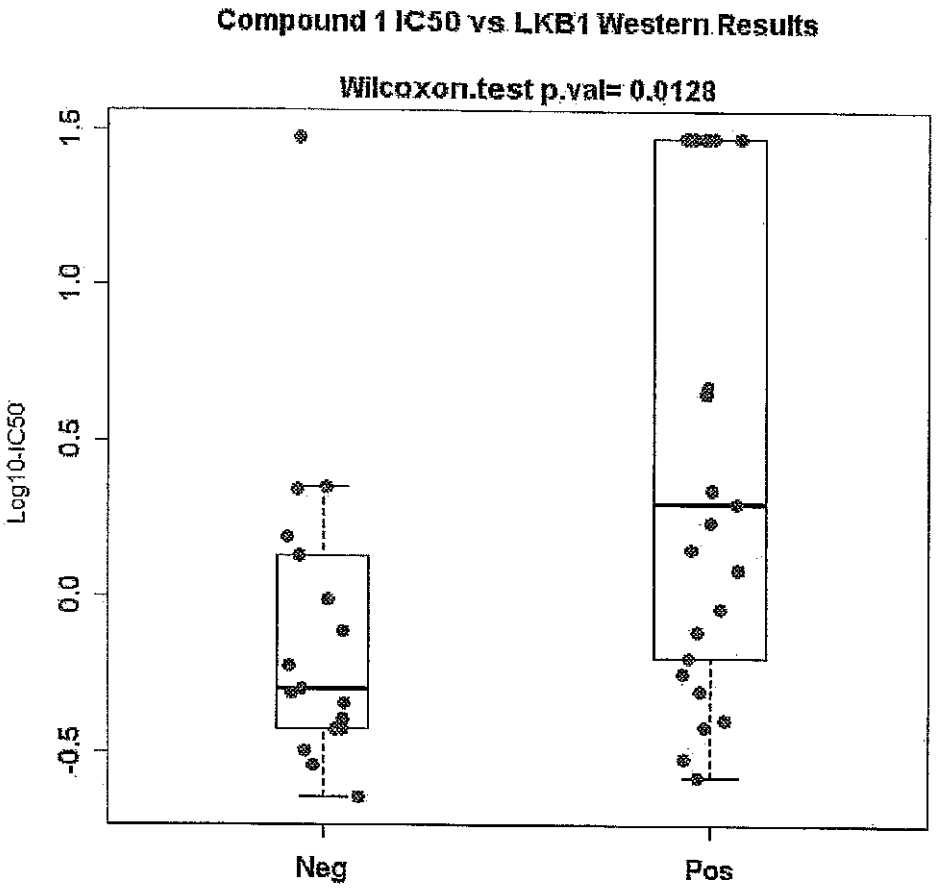


FIG. 2B

	Compound 1 Sensitive (number of cell lines)	Compound 1 Less Sensitive (number of cell lines)
LKB1 Pos	16	9
LKB1 Neg	16	1

Fisher test: p value=0.03 (<0.05)
Wilcoxon test p value=0.0128 (<0.05)

FIG. 2C

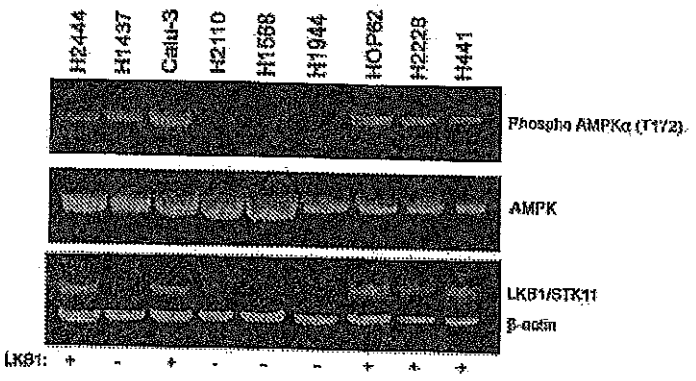

H2444
H1437
Calu-3
H2110
H1568
H1944
HOP62
H2228
H441
Phospho AMPKα (T172)
AMPK
LKB1/STK11
β-actin
LKB1: + - + - - - + + +

FIG. 3A

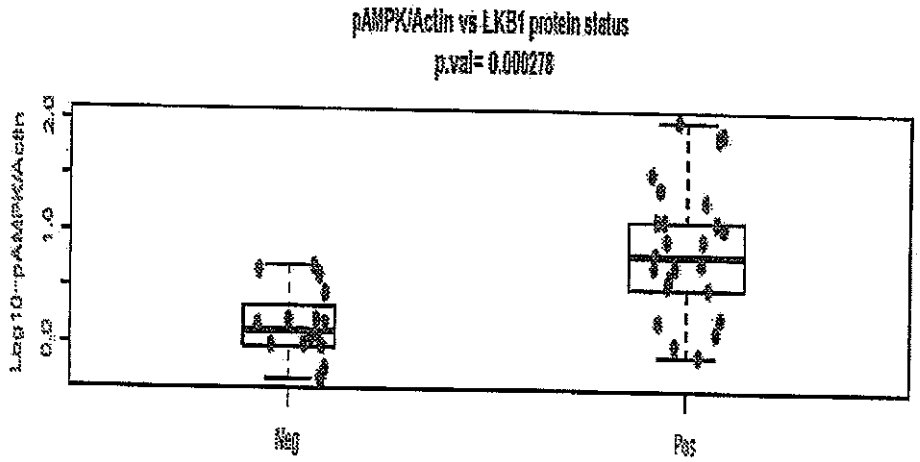

pAMPK/Actin vs LKB1 protein status
p.val= 0.000278
Log10 pAMPK/Actin
2.0
1.0
0.0
Neg
Pos

FIG. 3B