

Supplementary Table 1. Antibodies used for western blotting.

Antibody	Dilution	Manufacturer
MET (C-12)	1:200	Santa Cruz Biotechnology
phospho-MET (Tyr1234/1235)	1:1000	Cell Signaling
EGFR (sc-71034)	1:500	Santa Cruz Biotechnology
phospho-EGFR (Tyr1068)	1:2500	ZYMED Laboratories
phospho-AKT (Ser473)	1:1000	Cell Signaling
AKT Antibody	1:1000	Cell Signaling
phospho-p44/42 MAPK (Thr202/Tyr204)	1:1000	Cell Signaling
p44/42 MAPK	1:1000	Cell Signaling
phospho-p70 S6K (Ser371)	1:1000	Cell Signaling
p70 S6K	1:1000	Cell Signaling
phospho-ERBB3 (Tyr1289)	1:1000	Cell Signaling
ERBB3	1:1000	Cell Signaling
Total-IGF-1R	1:1000	Cell Signaling
Phosho-IGF-1R	1:1000	Cell Signaling
NF2	1:1000	Santa Cruz

Supplementary Table 2. NF2 status in MM cell lines.

Cell line	NF2 protein expression	NF2 Gain/Loss	NF2 RNA expression*	NF2 Mutation	Rapamycin IC50s	Rapamycin sensitivity**
211H	Yes	Normal	7.11	None	>1μM	1nM
H28	Yes	Normal	7.64	None	>1μM	1nM
H2452	Yes	Normal	6.55	None	>1μM	1nM
Meso56	Yes	Loss	7.39	None	1-10nM	1nM
H-Meso1A	Yes	Loss	5.67	None	>1μM	0.1nM
H-Meso	Yes	Normal	7.47	None	>1μM	Resistant
H2373	Yes	Loss	5.96	No mutation - Deletion of exons 7&8 in lit	>1μM	1nM
H2052	No	Normal	5.83	R341 nonsense	>1μM	0.1nM
Meso10	No	Loss	5.78	R341 nonsense	10nM-1μM	0.1nM
Meso 34	No	Normal	5.99	R341 nonsense	>1μM	1nM
VAMT	No	Normal	5.75	None	>1μM	1nM
JMN	No	Normal	6.06	7 bp homozygous deletion fs	>1μM	1nM
Meso9	No	Normal	5.84	None	<1nM	0.1nM

* Affymetrix expression value based on mean of 9 probes for *NF2*. **Concentrations of Rapamycin which show a statistically significant decrease of proliferation compared with control.

Supplementary Table 3. Sensitivity of MM cell lines to rapamycin in combination with TKIs.

	Sensitivity to rapamycin in combination with		
	IGF1R TKI MK-0646	EGFR TKI erlotinib	MET TKI PHA-665752
211H	+	+	+
Meso 10	+	+	-
H2373	+	+	-
H2452	+	-	+
H2052	+	-	+
Meso 56	+	-	-
H28	-	+	-
JMN	-	+	-
VAMT	-	+	-
Meso 34	-	+	+
Meso 9	-	-	+
H-Meso 1A	-	-	+
H-Meso	-	-	-