

SUPPLEMENTARY DATA

Supplementary Table S1. RTK Ligands and Cytokines Used to Test the Specificity of Induction of A549-EGFRB Cells

Ligand	Main target	Tested concentrations (nM)			Provider	Catalog no.
		D1	D2	D3		
EGF	ErbB1	5	50	500	Sigma-Aldrich	E-9644
TGF- α	ErbB1	5	50	500	Sigma-Aldrich	T7924
TNF- α	TNFR	5	50	250	Sigma-Aldrich	H8916
Heregulin- β 1	ErbB3 and 4	1	5	25	Thermo Fisher	RP318POA
PDGF	PDGFR- α and - β	1	2.5	10	Sigma-Aldrich	P8147
IGF	IGF1R	5	50	500	Sigma-Aldrich	I3769

EGF, epidermal growth factor; IGF, insulin-like growth factor; PDGF, platelet-derived growth factor; TGF- α , transforming growth factor α ; TNF- α , tumor necrosis factor α .

Supplementary Table S2. Chemical Structures and the Commercial Source of the 26 Compounds in the Panel

		Structure			Structure
Compound name	PD 153035 ²⁰		Compound name	Imatinib ²⁵	
Target/specificity	EGFR inhibitor		Target/specificity	Abl and PDGFR- β inhibitor	
Supplier	Biaffin GmbH		Supplier	LC Laboratories	
Compound name	Gefitinib ²⁴		Compound name	Vatalanib ²⁶	
Target/specificity	EGFR inhibitor		Target/specificity	VEGFR inhibitor	
Supplier	LC Laboratories		Supplier	LC Laboratories	
Compound name	Erbstatin analog ¹⁶		Compound name	DMPQ ²⁷	
Target/specificity	EGFR inhibitor		Target/specificity	PDGFR inhibitor	
Supplier	Biaffin GmbH		Supplier	LC Laboratories	
Compound name	Lavendustin A ¹⁷		Compound name	SU 4312 ²⁸	
Target/specificity	EGFR inhibitor		Target/specificity	VEGFR and PDGFR tyrosine kinase inhibitor	
Supplier	Biaffin GmbH		Supplier	Biaffin GmbH	
Compound name	Gö 6976 ²⁹		Compound name	Midostaurin, PKC412 ³⁰	
Target/specificity	PKC inhibitor		Target/specificity	PKC inhibitor	
Supplier	LC Laboratories		Supplier	LC Laboratories	

(continued)

Supplementary Table S2. (Continued)

		Structure			Structure
Compound name	Apigenin ³¹		Compound name	SL327 ³²	
Target/specificity	Broad kinase inhibitor		Target/specificity	MEK1 and MEK2 inhibitor	
Supplier	Biaffin GmbH		Supplier	Biaffin GmbH	
Compound name	3-(2-Aminoethyl)-5-((4-ethoxyphenyl)methylene)-2,4-thiazolidinedione ³³		Compound name	PD 169316 ³⁴	
Target/specificity	ERK inhibitor		Target/specificity	p38 kinase inhibitor	
Supplier	Biaffin GmbH		Supplier	Biaffin GmbH	
Compound name	Temsirolimus ³⁵		Compound name	L-685,458 ³⁶	
Target/specificity	mTOR inhibitor		Target/specificity	γ-secretase inhibitor	
Supplier	LC Laboratories		Supplier	Sigma	
Compound name	Rutilantinone ³⁷		Compound name	Ellipticine ³⁸	
Target/specificity	Antibiotic		Target/specificity	CYP1A1 inhibitor	
Supplier	Microsource		Supplier	Prestwick chemicals	
Compound name	Adaphostin ³⁹		Compound name	Lycorine ⁴³	
Target/specificity	Bcr-Abl inhibitor		Target/specificity	Toxic compound	
Supplier	Biaffin GmbH		Supplier	Microsource	
Compound name	Phloretin ⁴⁰		Compound name	Wortmannin ⁴⁴	
Target/specificity	Ca channel blocker, K channel activator		Target/specificity	PI3K inhibitor	
Supplier	Biaffin GmbH		Supplier	LC Laboratories	
Compound name	Dasatinib ⁴¹		Compound name	Quinacrine ⁴⁵	
Target/specificity	Bcr-Abl and Src inhibitor		Target/specificity	Antimalarial drug	
Supplier	LC Laboratories		Supplier	Prestwick Chemicals	
Compound name	Calyculin A ⁴²		Compound name	Sunitinib ⁴⁶	
Target/specificity	Serine/threonine phosphatase inhibitor		Target/specificity	Broad RTK inhibitor	
Supplier	LC Laboratories		Supplier	LC Laboratories	

EGFR, epidermal growth factor receptor; MEK, MAP/ERK kinase; PDGFR, platelet-derived growth factor receptor; PI3K, phosphatidylinositol-3-kinase; PKC, protein kinase C; RTK, receptor tyrosine kinase; VEGFR, vascular endothelial growth factor receptor.