

Table S1. List of tyrosine kinases in kinase antibody array and ORF library

Kinases	Kinase antibody array	ORF library
Akt/PKB/Rac	+	+
ALK	+	
Ax1	+	+
BLK		+
BMX		+
BTK		+
c-Abl	+	
c-Kit/SCFR	+	
CLK1		+
DYRK1B		+
DYRK2		+
DYRK4		+
EGFR/ErbB1	+	
EphA1	+	
EphA2	+	
EphA3	+	
EPHA4		+
EphB1	+	
EphB3	+	
EphB4	+	
FGFR1	+	+
FGFR3	+	
FGFR4	+	
FGR		+
FLT3/Flk2	+	
FRK		+
HCK		+
HER2/ErbB2	+	
HER3/ErbB3	+	
IGF-IR	+	
InsR	+	
IRS-1	+	
ITK		+
JAK3		+
Lck	+	+
MAP2K5		+

MAP2K6		+
MAP2K7		+
MATK		+
M-CSFR/CSF-1R	+	
Met/HGFR	+	
p44/42 MAPK (ERK1/2)	+	
PDGFR	+	
PTK2		+
PTK9L		+
Ret	+	+
Ron/MST1R	+	
S6 Ribosomal Protein	+	
Src	+	
Stat1	+	
Stat3	+	
SYK		+
TEC		+
TIE1		+
Tie2/TEK	+	
TNK2		+
TrkA/NTRK1	+	
TrkB/NTRK2	+	
TrkC/NTRK3		+
TTK		+
TYK2		+
Tyro3/Dtk	+	
VEGFR2/KDR	+	
YES		+
Zap-70	+	+
65	38	33

Table S2. Percentage of cases with altered tyrosine kinases in various cancer types

Percent cases altered	Cancer datasets							
	Tyrosine kinases	Pancreas (UTSW)	Ovarian (TCGA)	Stomach/ Esophageal	Prostate (FHCRC, 2016)	Breast (METABRIC)	Bladder (TCGA)	Melanoma (TCGA)
ErbB2	11.90%	3.90%	27.50%	1.50%	18.30%	13.40%	3.10%	5.20%
Tyro3	1.80%	3.90%	4.50%	3.70%	0.50%	1.60%	4.20%	3.50%
AXL	16.50%	5.50%	4.90%	4.40%	0.50%	5.50%	4.90%	3%
EphA2	14.70%	4.20%	4.90%	2.90%	0.10%	7.90%	8.40%	3%
FAK	15.60%	36.70%	12.10%	30.90%	21.70%	7.90%	8%	7%
Total	60.50%	54.20%	53.90%	43.40%	41.10%	36.30%	28.60%	21.70%

<http://www.cbiportal.org/index.do>

Table S3. Cellular glycolytic index of MCF10A sublines (normalized to 10A.pLHCX)

	10A.pLHCX	10A.PKM2	10A.Y105F	10A.Y105D
Glucose uptake (G)	2481.67	2308.00	2169.00	2369.00
Lactate production (L)	1.71	1.66	1.69	1.11
Oxygen consumption (O)	47.37	46.42	37.86	16.75
Glycolytic index (G x L / O)	89.61	82.77	96.84	157.39
Fold change	1.00	0.92	1.08	1.76