Ignite Proteomics

MEASURE WHAT MATTERS

Validated Targets for the Ignite RPPA platform

Targets may be validated upon request

Analyte No.	Protein Target
1	4EBP1
2	4EBP1 S65
3	4EBP1 T37 T46
4	4EBP1 T70
5	60S Ribosomal Protein L13a
6	Abl SH2 domain
7	Acetylated-alpha-Tubulin
8	Acetylated-Lysine (all K)
9	Acetyl-CBP K1535/p300 K1499
10	Acetyl-Histone H2A K5
11	Acetyl-Histone H2B K20
12	Acetyl-Histone H2B K5
13	Acetyl-Histone H3 K23
14	Acetyl-Histone H3 K9 K14
15	Acetyl-Histone H4 K12
16	Acetyl-Histone H4 K8
17	Acetyl-NFkappaB p65 K310
18	Acetyl-p53 K379
19	Acetyl-p53 K382
20	Acetyl-STAT3 K685
21	Aceytl-CoA Carboxylase 2
22	Aceytl-CoA Carboxylase S79
23	Aceytl-Histone H3 K14
24	Aceytl-Histone H3 K9 S10
25	Ack1 Y284
26	Adducin S662
27	Akt
28	Akt S473
29	Akt T308

Amino Acid Abbreviations

D: aspartic acid

R: arginine

K: lysine

S: serine

T: threonine

Y: tyrosine

30	Akt2
31	Albumin
32	Aldehyde Dehydrogenase (ALDH)
33	Aldehyde Dehydrogenase 1 (ALDH1)
34	ALK
35	ALK Y1586
36	ALK Y1604
37	alpha smooth muscle Actin
38	alpha/beta-Crystallin
39	alpha/beta-Synuclein
40	alpha/beta-Tubulin
41	alpha-Tubulin
42	AMPKalpha T172
43	AMPKalpha1 S485
44	Androgen Receptor
45	Androgen Receptor S650
46	Androgen Receptor S81
47	Androgen Receptor, AR-V7 specific
48	Annexin I
49	Annexin II
50	Apolipoprotein H
51	Atezolizumab
52	Atg12
53	Atg5
54	ATM S1981
55	ATP-Citrate Lysase S455
56	ATR S428
57	Aurora A T288
58	Aurora A T288/Aurora B T232/Aurora C T198
59	Aurora Kinase A
60	Axin1
61	Axin2
62	AXL
63	AXL Y702
64	Bad
65	Bad S112
66	Bad S136
67	Bad S155
68	Bak
69	Bax
70	Bcl-2

71	Bcl-2 S70
72	Bcl-2 T56
73	BCL6
74	Bcl-xL
75	Bcr Y177
76	Beclin-1
77	beta III Tubulin
78	beta-Actin
79	beta-Arrestin 1/2
80	beta-Arrestin1 S412
81	beta-Catenin
82	beta-Catenin Acetyl-K49
83	beta-Catenin S33 S37 T41
84	beta-Catenin T41 S45
85	Biliverdin Reductase A
86	Biliverdin Reductase B
87	BIM
88	Bim S69
89	BLNK
90	BLNK Y84
91	Bmi-1
92	B-Raf S445
93	B-Raf Y401
94	BRCA1
95	BRG1
96	Btk
97	Btk Y223
98	Bub3
99	c-Abl T735
100	c-Abl Y245
101	c-Abl Y412
102	Calpain 1 Large Subunit (mu-type)
103	Calpain 2 Large Subunit (M-type)
104	Calreticulin
105	CARM1
106	Caspase-3
107	Caspase-7
108	Caspase-8
109	Caspase-9
110	Cathepsin B
111	Caveolin-1

112	Caveolin-1 Y14
113	CD133
114	CD24 (GPI-linked surface Mucin) Ab-2
115	CD276
116	CD3 epsilon
117	CD3 zeta
118	CD38
119	CD44
120	CD45
121	CD55
122	CD5L
123	CD63
124	CD9
125	Cdc20
126	CDC25A S76
127	Cdc25C
128	CDK1 Y15
129	CDK2
130	CDK4
131	CDK4 T172
132	CDK6
133	CDK7
134	CDT1
135	CENP-A S7
136	c-Fos
137	Chk1 S345
138	Chk2 S33 S35
139	Chk2 T387
140	c-Kit
141	c-Kit Y703
142	c-Kit Y719
143	c-Kit Y730
144	c-Kit Y823
145	c-Kit Y936
146	cl alpha-Fodrin D1185
147	cl Caspase-3 D175
148	cl Caspase-6 D162
149	cl Caspase-7 D198
150	cl Caspase-8 D391/D374
151	cl Caspase-9 D315
152	cl Lamin A D230

153	cl PARP D214
154	c-Myc
155	c-Myc S62
156	Cofilin
157	Cofilin S3
158	Complement factor H
159	Cox-2
160	cPLA2 S505
161	c-Raf
162	c-Raf S338
163	CREB
164	CREB S133
165	CRIM1
166	Cripto
167	CrkL Y207
168	Crkll Y221
169	CSK S364
170	Cu/Zn Superoxide Dismutase
171	Cyclin A2
172	Cyclin B1
173	Cyclin B1 S133
174	Cyclin D1
175	Cyclin D1 T286
176	Cyclin E1
177	Cytochrome C
178	Cytochrome C oxidase (COX4+COX4L2)
179	DCK
180	delta-1-Catenin Y228
181	DEPTOR
182	DGK
183	Di-methyl-Histone H3 K79
184	Di-methyl-Histone H3 K9
185	DKK1
186	Doublecortin
187	DUSP6
188	Dvl2
189	Dvl3
190	E-Cadherin
191	EGFR T654
192	EGFR Y1045
193	EGFR Y1068

194	EGFR Y1086
195	EGFR Y1148
196	EGFR Y1173
197	EGFR Y845
198	EGFR (L858R mutant Specific)
199	EGFR S1046 S1047
200	EGFR1 Y992
201	EGFR11
202	eIF2alpha S51
203	eIF4E S209
204	eIF4G
205	eIF4G S1108
206	Elk-1 S383
207	eNOS
208	eNOS S113
209	eNOS S114
210	eNOS S1177
211	EphA2
212	EphA4
213	EphB1
214	Ephrin-A3 Y799/Ephrin-A4 Y299/Ephrin-A5 Y833
215	Ephrin-B Y324 Y329
216	ErbB2/HER2
217	ErbB2/HER2 Y1196
218	ErbB2/HER2 Y1248
219	ErbB2/HER2 Y877
220	ErbB3/HER3
221	ErbB3/HER3 Y1197
222	ErbB3/HER3 Y1289
223	ErbB4/HER4
224	ErbB4/HER4 Y1284
225	ErbB4/HER4 Y984
226	ERCC1
227	ERG
228	ERK1/2
229	ERK1/2 T202 Y204
230	Estrogen Receptor alpha
231	Estrogen Receptor alpha S118
232	ETK Y40
233	Ezrin T567/Radixin T564/Moesin T558
234	Ezrin Y353

235	FADD
236	FADD S194
237	FAK
238	FAK Y398
239	FAK Y576 Y577
240	FGFR1 Y653 Y654
241	FHL2
242	Fibronectin
243	FLT3
244	FLT3 Y589 Y591
245	FLT3 Y842
246	FoxM1
247	FoxM1 T600
248	FoxO1
249	FOXO1 S256
250	FOXO1 T24/FOXO3a T32
251	FOXO3a S253
252	FRS2
253	FRS2-alpha Y196
254	FRS2-alpha Y436
255	Fyn
256	Fyn Y530
257	Gab1 Y627
258	Galectin-1/LGALS1
259	Galectin-3/LGALS3
260	GAPDH
261	Geminin
262	GFAP
263	Glucocorticoid Receptor S211
264	Glutaminase-1
265	GRB2
266	Group-specific component
267	GSK3alpha S21
268	GSK3alpha S21/GSK3beta S9
269	GSK3alpha Y279/GSKbeta 216
270	GSK3beta
271	GSK3beta S9
272	Heme oxygenase 1
273	Hes1
274	HIF-1alpha
275	Histone Deacetylase 1

276	Histone Deacetylase 4
277	Histone Deacetylase 4/5/7 S632/661/486
278	Histone H2AX S139
279	Histone H3
280	Histone H3 S10
281	Histone H3 S28
282	Histone H3 T11
283	Histone H3 T3
284	HLA-DR
285	HLA-DR/DP/DQ/DX
286	HMGA1
287	HMGB1
288	HP1-gamma/CBX3 S83
289	HS1 Y397
290	HSP27 S82
291	HSP70
292	HSP90 (E289)
293	HSP90a T5 T7
294	ICAM-1
295	Ig kappa Light Chain
296	IGF-1
297	IGF-1 Receptor beta
298	IGF-1 Receptor Y1131/Insulin Receptor Y1146
299	IGF-1 Receptor Y1135 Y1136/Insulin Receptor Y1150 Y1151
300	IGFBP7
301	IkappaBalpha
302	IkappaB-alpha S32
303	IkappaB-alpha S32 S36
304	IL-10
305	IL-6
306	IL-8
307	ILK1
308	iNOS
309	INPP4B
310	Insulin Receptor beta
311	Intregrin B1 Y795
312	IRAK1 T387
313	IRAK4
314	IRAK4 T345 S346
315	IRAK4 T345 S346_invitrogen

316	IRAK4_invitrogen
317	IRF-4
318	IRS1
319	IRS1 S612
320	Jak1 Y1022 Y1023
321	JAK2
322	Jak2 Y1007
323	Jak2 Y1007 Y1008
324	K48 Linkage Specific Polyubiquitin
325	Keratin 17/19
326	Keratin 8/18
327	Ki67
328	LAMP-2
329	LC3A
330	LC3B
331	Lck
332	Lck Y505
333	LDHA
334	LDHA/LDHC
335	LEDGF
336	LIMK1 T508/LIMK2 T505
337	Lipocalin-2
338	LKB1
339	LKB1 S334
340	LKB1 S428
341	LRG1
342	LRP2
343	LRP6
344	MAPK pTEpY
345	MAPKAPK-2
346	MAPKAPK-2 T334
347	MARCKS
348	MARCKS S152 S156
349	Matriptase
350	Mcl-1
351	M-CSF Receptor Y723
352	M-CSFR
353	MDM2 S166
354	MEK1 S298
355	MEK1 T386
356	MEK1/2

357	MEK1/2 S217 S221
358	Melan-A
359	MER
360	MERTK Y749 Y753 Y754
361	Met
362	Met Y1234 Y1235
363	Met Y1349
364	Methyl-Histone H3 R2
365	MGMT
366	MHC Class I
367	MLH1
368	MLKL S358
369	MMP-14
370	MMP-9
371	Mn Superoxide Dismutase
372	MRPL11
373	MSH2
374	MSK1 S360
375	mTOR
376	mTOR S2448
377	mTOR S2481
378	Musashi
379	MyD88
380	Naked1
381	Naked2
382	NAMPT
383	Nanog
384	NAPRT1
385	N-Cadherin
386	NDRG1 S330
387	NEDD8
388	NFkappaB p105 S933
389	NFkappaB p105/p50 S337
390	NFkappaB p65 S276
391	NFkappaB p65 S536
392	NFkB p65 S529
393	NGF-beta
394	Nivolumab
395	Nodal
396	nonphospho-beta-Catenin
397	Non-phospho-Src Y527

398	NOS (pan)
399	Notch 1
400	NPM T199
401	NQO1
402	Nrf2
403	NRG1
404	NT5E
405	N-WASP Y256
406	Osteopontin
407	p16 INK4a
408	p21 Waf1/Cip1
409	p27 Kip1 T198
410	p27 T187
411	p27/Kip1
412	p38 MAP Kinase
413	p38 MAPK T180 Y182
414	p40 phox T154
415	p53
416	p53 S15
417	p62/SQSTM1
418	p70S6 Kinase
419	p70S6K S371
420	p70S6K T389
421	p90RSK S380
422	PAK1
423	PAK1 S199 S204/PAK2 S192 S197
424	PAK1 T423/PAK2 T402
425	PAK2
426	PAK2 S20
427	PAK4 S474
428	pan-Cytokeratin
429	PARP
430	Paxillin Y118
431	PBK/TOPK
432	PCAF
433	PDGF Receptor alpha
434	PDGF Receptor alpha Y754
435	PDGF Receptor beta
436	PDGF Receptor beta Y751
437	PDK1 S241
438	PDL1

439	PEDF
440	Pembrolizumab
441	PHD-2/Egln1
442	phospho-Tyrosine (all Y)
443	PI3-Kinase p110gamma
444	PI3-Kinase p85
445	PIAS1
446	PIM1
447	PIM2
448	PKA C T197
449	PKC (pan) beta II S660
450	PKC alpha
451	PKC alpha/beta II T638 T641
452	PKC delta T505
453	PKC theta T538
454	PKC zeta/lambda T410 T403
455	PKCd
456	PKCd S359
457	PKCd S645
458	PKCd Y311
459	PKCm
460	PKM2
461	PLC-gamma-1
462	PLCgamma1 Y783
463	PLK1
464	PLK1 T210
465	PP2A A Subunit
466	PP2A B Subunit
467	PRAS40
468	PRAS40 T246
469	PRK1 T774/PRK2 T816
470	Progestrone Receptor S190
471	Prolactin Receptor
472	Promyelocytic Leukemia Protein
473	Proteasome 20S C2
474	Protein Phosphatase 1 beta
475	PSA/Kallikrein-3
476	PTCH
477	PTEN
478	PTEN S380
479	PUMA

480	Pyk2 Y402
481	Raf S259
482	RANKL
483	Raptor
484	Raptor S792
485	Ras
486	Ras G12D
487	Ras G12V
488	Ras-GRF1
489	Ras-GRF1 S916
490	Rb
491	Rb S780
492	Ret
493	Ret Y905
494	Rictor
495	RIP1
496	RIP3
497	RNA Polymerase II CTD repeat YSPTSPS S2
498	Ron Y1238 Y1239
499	Ron Y1353
500	Ros1 Y2274
501	Rpb1 CTD S5
502	RSK1 T359 S363
503	Rsk-2
504	RSK3 T356 S360
505	S100 calcium-binding protein A7
506	S100A4
507	S6 Ribosomal Protein
508	S6 Ribsomal Protein S235 S236
509	S6 Ribsomal Protein S240 S244
510	SAPK/JNK
511	SAPK/JNK T183 Y185
512	SCD1
513	SEK1 S80
514	Serpin A1
515	SGK S78
516	SGK1
517	SHC Y317
518	SHIP1 Y1020
519	SHP1 Y564
520	SHP2 Y542

521	SHP2 Y580
522	Skp1
523	SLC29A1
524	SLC4A1
525	Smac/Diablo
526	Smad2 S245 S250 S255
527	Smad2 S467
528	Smad2/3
529	Smad3 S423 S425
530	Smoothened
531	Snail
532	SOCS1
533	Sox2
534	Src Y416
535	Src Y527
536	ST6GALNAC5
537	STAT1
538	STAT1 Y701
539	STAT1 Y727
540	STAT2 Y690
541	STAT3
542	STAT3 S727
543	STAT3 Y705
544	STAT4 Y693
545	STAT5
546	STAT5 Y694
547	STAT6
548	STAT6 Y641
549	Stathmin
550	SUMO-1
551	SUMO-2/3
552	Survivin
553	Syk
554	Syk Y525 Y526
555	Syndecan-1 (CD138)
556	TAB2 S372
557	Tata-binding protein
558	TCP1
559	TGF-beta
560	Thioredoxin Reductase 1
561	TIE2

562	TIE2 Y992
563	TIMP2
564	TIMP3
565	TLE3
566	TLR4
567	TNF-alpha
568	TNF-R1
569	Topoisomerase I
570	TORC2 S171
571	TRAF2
572	Tri-methly-Histone H3 K27
573	Tri-methyl-Histone H3 K4
574	TrkA
575	TrkA Y490
576	TrkA Y490/TrkB Y516/TrkC Y516
577	TrkA Y674 Y675/TrkB Y706 Y707
578	TrkC
579	TROP2
580	TTF1
581	Tuberin
582	Tuberin Y1571
583	twist
584	Tyk2
585	Tyk2 Y1054 Y1055
586	UBC3
587	Ubiquitin
588	VASP S157
589	VAV-1
590	Vav3 Y173
591	VEGFR1
592	VEGFR2
593	VEGFR2 Y1175
594	VEGFR2 Y951
595	VEGFR2 Y996
596	VEGFR3
597	VHR
598	Vimentin
599	Vitamin D3 Receptor
600	Wee1
601	Wee1 S123
602	Wnt5a/b

603	XIAP
604	YAP S127
605	ZAP-70
606	Zap-70 Y319/Syk Y352