

RPPA Phosphoproteome Analysis - Target List

Pathway	Antibody	Pathway	Antibody	Pathway	Antibody
Angiogenesis	p-eNOS (Ser1177)	NFκB	p-IκB-α (Ser32/36)	RTK	p-FLT3 (Tyr591)
Apoptosis	p-Bad (Ser112)	NFκB	p-NFκB p65 (Ser468)	RTK	p-Gab1 (Tyr627)
Apoptosis	p-Bad (Ser136)	NFκB	p-NFκB p65 (Ser536)	RTK	p-Gab2 (Tyr452)
Apoptosis	p-Bad (Ser155)	NFκB	p-RelB (Ser552)	RTK	p-HER2/ErbB2 (Tyr1221/1222)
Apoptosis	p-Bcl-2 (Ser70)	NFκB	p-TBK1/NAK (Ser172)	RTK	p-HER2/ErbB2 (Tyr1248)
Apoptosis	p-Bcl-2 (Thr56)	p38 MAPK	p-HSP27 (Ser82)	RTK	p-HER4/ErbB4 (Tyr984)
Apoptosis	p-Bim (Ser69)	p38 MAPK	p-MAPKAPK-2 (Thr222)	RTK	p-IGF-1 Receptor (Tyr1131)
Apoptosis	p-NDRG1 (Thr346)	p38 MAPK	p-MAPKAPK-2 (Thr334)	RTK	p-Insulin Receptor (Tyr1146)
Cell cycle	p-Aurora A (Thr288)	p38 MAPK	p-MKK3/MKK6 (Ser189/207)	RTK	p-IGF-1 Receptor (Tyr1135/1136)
Cell cycle	p-Aurora B (Thr232)	p38 MAPK	p-MSK1 (Thr581)	RTK	p-IGF-1 Receptor (Tyr980)
Cell cycle	p-Aurora C (Thr198)	p38 MAPK	p-p38 MAPK (Thr180/Tyr182)	RTK	p-Met (Tyr1234/1235)
Cell cycle	p-Cyclin D1 (Thr286)	PI3K-AKT-mTOR	Non-p-4E-BP1 (Thr46)	RTK	p-PDGF Receptor-β (Tyr1009)
Cell cycle	p-Rb (Ser780)	PI3K-AKT-mTOR	p-4E-BP1 (Ser65)	RTK	p-PDGF Receptor-β (Tyr1021)
Cell cycle	p-Rb (Ser795)	PI3K-AKT-mTOR	p-4E-BP1 (Thr37/46)	RTK	p-PDGF Receptor-β (Tyr740)
Cell cycle	p-Rb (Ser807/811)	PI3K-AKT-mTOR	p-4E-BP1 (Thr70)	RTK	p-PDGF Receptor-β (Tyr751)
Cell cycle	p-Wee1 (Ser642)	PI3K-AKT-mTOR	p70-S6 kinase (Thr389)	RTK	p-PDGF Receptor-β (Tyr771)
Cytoskelton	p-AP2M1 (Thr156)	PI3K-AKT-mTOR	p-Akt (Ser473)	RTK	p-PKC(pan) βII (Ser660)
Cytoskelton	p-Cofilin (Ser3)	PI3K-AKT-mTOR	p-Akt (Thr308)	RTK	p-PKCα/β (Thr638/641)
Cytoskelton	p-Ezrin (Thr567)	PI3K-AKT-mTOR	p-eEF2k (Ser366)	RTK	p-PKCδ (Thr505)
Cytoskelton	p-Radixin (Thr564)	PI3K-AKT-mTOR	p-eIF4B (Ser422)	RTK	p-PKCθ/θ (Ser643/676)
Cytoskelton	p-Moesin (Thr558)	PI3K-AKT-mTOR	p-eIF4E (Ser209)	RTK	p-PKCζ/λ (Thr410/403)
Cytoskelton	p-MARCKS (Ser167/170)	PI3K-AKT-mTOR	p-eIF4G (Ser1108)	RTK	p-PKCθ (Thr538)
Cytoskelton	p-MYPT (Ser507)	PI3K-AKT-mTOR	p-GSK-3α (Ser21)	RTK	p-PKM2 (Tyr105)
Cytoskelton	p-MYPT (Ser668)	PI3K-AKT-mTOR	p-GSK-3α/β (Ser21/9)	RTK	p-PLCy (Tyr1217)
Cytoskelton	p-MYPT (Thr853)	PI3K-AKT-mTOR	p-GSK-3β (Ser9)	RTK	p-PLCy (Tyr759)
Cytoskelton	p-VASP (Ser157)	PI3K-AKT-mTOR	p-mTOR (Ser2448)	RTK	p-PLCy (Tyr783)
Cytoskelton	p-VASP (Ser239)	PI3K-AKT-mTOR	p-PDK1 (Ser241)	RTK	p-Ret (Tyr905)
DNA damage	p-ATM (Ser1981)	PI3K-AKT-mTOR	p-PKD/PKCμ (Ser744/748)	RTK	p-Shc (Tyr239)
DNA damage	p-ATR (Ser428)	PI3K-AKT-mTOR	p-PKD/PKCμ (Ser916)	RTK	p-Shc (Tyr317)
DNA damage	p-BAP1 (Ser592)	PI3K-AKT-mTOR	p-PRAS40 (Thr246)	RTK	p-SHIP2 (Tyr1135)
DNA damage	p-BRCA1 (Ser1524)	PI3K-AKT-mTOR	p-PTEN (Ser380)	RTK	p-SHP-2 (Tyr580)
DNA damage	p-Chk1 (Ser296)	PI3K-AKT-mTOR	p-Raptor (Ser792)	RTK	p-Src Family (Tyr416)
DNA damage	p-Chk1 (Ser317)	PI3K-AKT-mTOR	p-S6Rb (Ser235/236)	RTK	p-Src (Tyr527)
DNA damage	p-Chk1 (Ser345)	PI3K-AKT-mTOR	p-Tuberin/TSC2 (Ser939)	RTK	p-Syk (Tyr323)
DNA damage	p-Chk2 (Ser19)	PI3K-AKT-mTOR	p-Tuberin/TSC2 (Thr1462)	RTK	p-Syk (Tyr525/526)
DNA damage	p-Chk2 (Ser33/35)	PI3K-AKT-mTOR	p-Tuberin/TSC2 (Thr1571)	RTK	p-VEGF Receptor 2 (Tyr1059)
DNA damage	p-Chk2 (Thr68)	Ras-Raf	p-A-Raf (Ser299)	RTK	p-VEGF Receptor 2 (Tyr1175)
DNA damage	p-p53 (Ser15)	Ras-Raf	p-B-Raf (Ser445)	RTK	p-VEGF Receptor 2 (Tyr951)
DNA damage	p-p53 (Ser20)	Ras-Raf	p-c-Raf (Ser259)	RTK	p-Zap-70 (Tyr319)
DNA damage	p-p53 (Ser37)	Ras-Raf	p-c-Raf (Ser289/296/301)	RTK	p-Syk (Tyr352)
DNA damage	p-p53 (Ser392)	Ras-Raf	p-c-Raf (Ser338)	SAPK/JNK	p-ATF-2 (Thr71)
DNA damage	p-p53 (Ser46)	Ras-Raf	p-CREB (Ser133)	SAPK/JNK	p-c-Fos (Ser32)
DNA damage	p-p53 (Ser6)	Ras-Raf	p-MEK1/2 (Ser217/221)	SAPK/JNK	p-c-Jun (Ser63)
DNA damage	p-p53 (Ser9)	Ras-Raf	p-Mnk1 (Thr197/202)	SAPK/JNK	p-c-Jun (Ser73)
Energy homeostasis	p-Acetyl-CoA carboxylase (Ser79)	Ras-Raf	p-p44/42 MAP kinase (Thr202/Tyr204)	SAPK/JNK	p-SEK1/MKK4 (Thr261)
Energy homeostasis	p-AMPKα (Thr172)	Ras-Raf	p-p90RSK (Ser380)	SAPK/JNK	p-SAPK/JNK(Thr183/Tyr185)
Energy homeostasis	p-AMPKβ1 (Ser108)	Ras-Raf	p-p90RSK (Thr359/Ser363)	STAT	p-Jak2 (Tyr1007/1008)
Energy homeostasis	p-LKB1 (Ser428)	Ras-Raf	p-p90RSK (Thr573)	STAT	p-Stat 1(Tyr701)
Forkhead	p-FoxO1 (Ser256)	Ras-Raf	p-PAK1 (Ser144)	STAT	p-Stat 2 (Tyr690)
Forkhead	p-FoxO1 (Thr24)	Ras-Raf	p-PAK2 (Ser141)	STAT	p-Stat 3 (Ser727)
Forkhead	p-FoxO3a (Thr32)	Ras-Raf	p-PAK1 (Ser199/204)	STAT	p-Stat 3 (Tyr705)
Forkhead	p-FoxO4 (Thr28)	Ras-Raf	p-PAK1 (Thr423)	STAT	p-Stat 5 (Tyr694)
Forkhead	p-FoxO3a (Ser253)	Ras-Raf	p-PAK2 (Ser182/197)	STAT	p-Stat 6 (Tyr641)
Forkhead	p-FoxO3a (Ser318/321)	Ras-Raf	p-PAK2 (Thr402)	STAT	p-Tyk2 (Tyr1054/1055)
Insulin receptor	p-IRS-1(Ser307)	Ras-Raf	p-PAK2 (Ser20)	TGF-β	p-Smad1/5 (Ser463/465)
Insulin receptor	p-IRS-1(Ser612)	Ras-Raf	p-RSK2 (Ser227)	TGF-β	p-Smad2 (Ser465/467)
Insulin receptor	p-IRS-1(Ser636/639)	Ras-Raf	p-RSK3(Thr356/Ser360)	TGF-β	p-Smad2 (Ser465/467)
Mitosis marker	p-Histone H2A.X (Ser139)	RTK	Non-p-Src (Tyr416)	TGF-β	p-Smad3 (Ser423/425)
Mitosis marker	p-Histone H3 (Ser10)	RTK	Non-p-Src (Tyr527)	TGF-β	p-TAK1 (Thr184/187)
Mitosis marker	p-Histone H3 (Ser28)	RTK	p-ALK (Tyr1282/1283)	Wnt	p-LRP6 (Ser1490)
Mitosis marker	p-Histone H3 (Thr11)	RTK	p-c-Kit(Tyr703)	Wnt	p-β-catenin (Ser33/37/Thr41)
Mitosis marker	p-Histone H3 (Thr3)	RTK	p-EGF Receptor (Tyr1045)	Wnt	p-β-catenin (Ser45)
Mitosis marker	p-NPM (Ser4)	RTK	p-EGF Receptor (Tyr1068)	Housekeeping	γ-tubulin
Mitosis marker	p-TACC3 (Ser558)	RTK	p-EGF Receptor (Tyr992)		

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