Assay Multiplexability*

Phosphoprotein Assays	Reactive Species**	Akt (Ser^{473})	Akt (Thr^{308})	c-Jun (Ser^{63})	EGFR (Tyr^{1068})	EGFR (Tyr^{1173})	Erk1/2 (Thr^{202}/Tyr^{204}, Thr^{185}/Tyr^{187})	GSK-3α/β (Ser^{21}/Ser^{9})	HER-2 (Tyr^{1248})	IGF-IR (Tyr^{1131})	IκB-α (Ser^{32}/Ser^{36})	JNK (Thr^{183}/Tyr^{185})	MEK1 (Ser^{217}/Ser^{221})	NF-κB p65 (Ser^{536})	p38 MAPK (Thr^{180}/Tyr^{182})	p70 S6 kinase (Thr^{421}/Ser^{424})	p70 S6 kinase (Thr^{389})	PDGFR-α (Tyr^{754})	PDGFR-β (Tyr^{751})	Smad2 (Ser^{465}/Ser^{467})	Stat1 (Tyr^{701})	Stat3 (Tyr^{705})	Stat3 (Ser^{727})	VEGFR-2 (Tyr^{1175})
Akt (Ser^{473})	H, M, R																							
Akt (Thr^{308})	H, M, R																							
c-Jun (Ser^{63})	H, M, R																							
EGFR (Tyr^{1068})	H																							
EGFR (Tyr^{1173})	H																							
Erk1/2 (Thr^{202}/Tyr^{204}, Thr^{185}/Tyr^{187})	H, M																							
GSK-3α/β (Ser^{21}/Ser^{9})	H, M,R																							
HER-2 (Tyr^{1248})	H, M, R																							
IGF-IR (Tyr^{1131})	H																							
IκB-α (Ser^{32}/Ser^{36})	H																							
JNK (Thr^{183}/Tyr^{185})	H																							
MEK1 (Ser^{217}/Ser^{221})	H, M, R																							
NF-κB p65 (Ser^{536})	H, M, R																							
p38 MAPK (Thr^{180}/Tyr^{182})	H, M, R																							
p70 S6 kinase (Thr^{421}/Ser^{424})	H, M, R																							
p70 S6 kinase (Thr^{389})	H, M, R																							
PDGFR-α (Tyr^{754})	H, M																							
PDGFR-β (Tyr^{751})	H, M, R																							
Smad2 (Ser^{465}/Ser^{467})	H, M, R																							
Stat1 (Tyr^{701})	H																							
Stat3 (Tyr^{705})	H, M, R																							
Stat3 (Ser^{727})	H, M, R																							
VEGFR-2 (Tyr^{1175})	H, M																							

* It is not recommended to multiplex assays with 10% or greater cross-reactivity. Data generated using Bio-Rad lysates. Cross-reactivity pattern may vary depending on cell line used.

** H, human; M, mouse; R, rat.

Cross-Reactivity Key 10–19% 20–29% >30%

Assay Multiplexability*

Total Target Assays	Reactive Species**	Akt	c-Jun	Erk1/2	GSK-3β	HER-2	IκB-α	JNK	MEK1	p38 MAPK	p70 S6 Kinase	Smad2
Akt	H, M, R											
c-Jun	H											
Erk1/2	H, M											
GSK-3β	H, M, R											
HER-2	H, M, R											
IκB-α	H											
JNK	H											
MEK1	H, M, R											
p38 MAPK	H, M, R											
p70 S6 Kinase	H, M, R											
Smad2	H											

* It is not recommended to multiplex assays with 10% or greater cross-reactivity. Data generated using Bio-Rad lysates. Cross-reactivity pattern may vary depending on cell line used.

** H, human; M, mouse; R, rat.

Cross-Reactivity Key 10–19% 20–29% >30%

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