AKT2_[PI]_i–_PI_[PH]
IRS_[pY]_ppi–_PI3K_[SH2]
IR_p+_IRS_[(res)]
IR_p–_IRS_[(res)]
PHLPP1_p–_AKT2_[(S474)]
PI4K3alpha_p+_PI_[(4)]
PIPK1alpha_p+_PI_[(5)]
PP2A_p–_AKT2_[(T309)]
PP5_p–_TSC2_[(Ser1130)]
PP5_p–_TSC2_[(Ser939)]
PP5_p–_TSC2_[(Ser981)]
PP5_p–_TSC2_[(Thr1462)]
PPM1G_p–_EIF4EBP1_[(Ser65)]
PPM1G_p–_EIF4EBP1_[(Thr37)]
PPM1G_p–_EIF4EBP1_[(Thr46)]
PPM1G_p–_EIF4EBP1_[(Thr70)]
PTEN_p–_PI_[(3)]
RHEB_[switch1DSYDPTIEN]_ppi–_mTOR_[FATf..2f..3]
RHEB_[switch1]_ppi–_mTOR_[Mheatm..2m..3m..4]
RHEB_[switch2GQDEYSIFPQTYSIDIN]_ppi–_mTOR_[Nheatn..3ton..7]
S6K1_p+_IRS_[(hS307)]
S6K1_p+_IRS_[(hS527)]
SAC1M1L_p–_PI_[(4)]
SYNJ2_p–_PI_[(5)]
TSC1_[Cterminus]_ppi+_TSC2_[Nterminus]
TSC2_gap_RHEB_[(G)]
eIF4E_[A001]_ppi+_EIF4EBP1_[A001]
eIF4E_[A001]_ppi–_eIF4G_[A002]
insulin_[IR]_ppi+_IR_[insulin]
insulin_[IR]_ppi–_IR_[insulin]
mTOR_[Raptor]_ppi+_Raptor_[mTOR]
unk_p–_PPM1G_[(AKT2)]
AKT2_[(S474)]–{0}
AKT2_[(T309)]–{0}
AKT2_[PI]––0
EIF4EBP1_[(Ser65)]–{0}
EIF4EBP1_[(Thr37)]–{0}
EIF4EBP1_[(Thr46)]–{0}
EIF4EBP1_[(Thr70)]–{0}
EIF4EBP1_[A001]––eIF4E_[A001]
GTP
INPP4B
IRS_[(hS307)]–{p}
IRS_[(hS527)]–{p}
IRS_[(res)]–{0}
IRS_[(res)]–{p}
IRS_[pY]––0
IR_[insulin]––0
IR_[insulin]––insulin_[IR]
PDK1
PHLPP1
PI3K_[SH2]––0
PI4K3alpha
PIPK1alpha
PIPP
PI_[(3)]–{0}
PI_[(4)]–{0}
PI_[(4)]–{p}
PI_[(5)]–{0}
PI_[(5)]–{p}
PI_[PH]––0
PP2A
PP5
PPM1G_[(AKT2)]–{0}
PTEN
RHEB_[(G)]–{0}
RHEB_[switch1DSYDPTIEN]––0
RHEB_[switch1]––0
RHEB_[switch2GQDEYSIFPQTYSIDIN]––0
Raptor_[TOS]––S6K1_[TOS]
Raptor_[mTOR]––mTOR_[Raptor]
S6K1_[(T389)]–{p}
SAC1M1L
SYNJ2
TSC1_[Cterminus]––TSC2_[Nterminus]
TSC2_[(Ser1130)]–{0}
TSC2_[(Ser939)]–{0}
TSC2_[(Ser981)]–{0}
TSC2_[(Thr1462)]–{0}
[EIF4EBP1]
[IR]
[Raptor]
[activatedIR]
[eIF4E]
[eIF4G]
[insulin]
[mTOR]
eIF4E_[A001]––0
eIF4G_[A002]––0
insulin_[IR]––0
mTORC1
mTORC2
mTOR_[FATf..2f..3]––0
mTOR_[Mheatm..2m..3m..4]––0
mTOR_[Nheatn..3ton..7]––0
unk
AKT2_[PI]_i+_PI_[PH]
AKT2_p+_PPM1G_[(AKT2)]
AKT2_p+_TSC2_[(Ser1130)]
AKT2_p+_TSC2_[(Ser939)]
AKT2_p+_TSC2_[(Ser981)]
AKT2_p+_TSC2_[(Thr1462)]
GTP_gef_RHEB_[(G)]
INPP4B_p–_PI_[(4)]
IRS_[pY]_ppi+_PI3K_[SH2]
PDK1_p+_AKT2_[(T309)]
PI3K_p+_PI_[(3)]
PIPP_p–_PI_[(5)]
RHEB_[switch1DSYDPTIEN]_ppi+_mTOR_[FATf..2f..3]
RHEB_[switch1]_ppi+_mTOR_[Mheatm..2m..3m..4]
RHEB_[switch2GQDEYSIFPQTYSIDIN]_ppi+_mTOR_[Nheatn..3ton..7]
Raptor_[TOS]_ppi+_S6K1_[TOS]
TSC1_[Cterminus]_ppi–_TSC2_[Nterminus]
[Output]
eIF4E_[A001]_ppi+_eIF4G_[A002]
eIF4E_[A001]_ppi–_EIF4EBP1_[A001]
mTORC1_p+_EIF4EBP1_[(Ser65)]
mTORC1_p+_EIF4EBP1_[(Thr37)]
mTORC1_p+_EIF4EBP1_[(Thr46)]
mTORC1_p+_EIF4EBP1_[(Thr70)]
mTORC2_p+_AKT2_[(S474)]
mTOR_p+_S6K1_[(T389)]
AKT2_[(S474)]–{p}
AKT2_[(T309)]–{p}
AKT2_[PI]––PI_[PH]
EIF4EBP1_[(Ser65)]–{p}
EIF4EBP1_[(Thr37)]–{p}
EIF4EBP1_[(Thr46)]–{p}
EIF4EBP1_[(Thr70)]–{p}
EIF4EBP1_[A001]––0
IRS_[(hS307)]–{0}
IRS_[(hS527)]–{0}
IRS_[pY]––PI3K_[SH2]
PI_[(3)]–{p}
PPM1G_[(AKT2)]–{p}
RHEB_[(G)]–{gtp}
RHEB_[switch1DSYDPTIEN]––mTOR_[FATf..2f..3]
RHEB_[switch1]––mTOR_[Mheatm..2m..3m..4]
RHEB_[switch2GQDEYSIFPQTYSIDIN]––mTOR_[Nheatn..3ton..7]
Raptor_[TOS]––0
Raptor_[mTOR]––0
S6K1_[(T389)]–{0}
S6K1_[TOS]––0
TSC1_[Cterminus]––0
TSC2_[(Ser1130)]–{p}
TSC2_[(Ser939)]–{p}
TSC2_[(Ser981)]–{p}
TSC2_[(Thr1462)]–{p}
TSC2_[Nterminus]––0
[activatedPI3K]
eIF4E_[A001]––eIF4G_[A002]
mTOR_[Raptor]––0

t000 t001