

Human PI3K-AKT Signaling PCR Array

AKT and PI3K Family Members and Their Regulators: AKT1, AKT2, AKT3, BTK, GRB10, GRB2, HSPB1, ILK, MTCP1, PDK2, PDPK1, PIK3CA (p110a), PIK3CG, PIK3R1 (p85a), PIK3R2 (p85b), PAK1, PRKCA, PRKCB, PRKCZ, PTEN, TCL1A.

IGF-1 Signaling Pathway: CSNK2A1, ELK1, FOS, GRB2, HRAS, IGF1, IGF1R, IRS1, JUN, MAP2K1, MAPK3, MAPK8, PTPN11, RAF1, RASA1, SHC1, SOS1, SRF.

Inactivation of Gsk3 and the Accumulation of β -Catenin: ADAR, AKT1, APC, CCND1, CD14, CTNNB1, EIF2AK2, GJA1, GSK3B, IRAK1, MYD88, NFKB1, PDK1, TIRAP, TLR4, TOLLIP.

PI3K Subunit p85 Genes and Regulation of Actin Organization and Cell Migration: CDC42, PDGFRA, RAC1, RHOA, WASL.

PTEN Dependent Cell Cycle Arrest and Apoptosis: AKT1, CDKN1B (p27), FASLG, FOXO3, GRB2, ILK, ITGB1, MAPK1, MAPK3, PDK1, PDK2, PTEN, PTK2, RBL2, SHC1, SOS1.

BAD Phosphorylation and Anti-apoptotic Pathways: AKT1, BAD, GRB2, HRAS, IGF1R, IRS1, MAP2K1, MAPK1, MAPK3, RAF1, RPS6KA1, SHC1, SOS1, YWHAH.

Genes Involved in the mTOR Signaling Pathway: AKT1, EIF4B, EIF4E, EIF4EBP1, EIF4G1, FKBP1A, MTOR, PDK1, PDK2, PTEN, RHEB, RPS6KB1, TSC1, TSC2.

Regulation of eIF4e and p70 S6 Kinase: AKT1, EIF4E, EIF4EBP1 (4E-BP1), EIF4G1, MTOR, IRS1, MAPK1, MAPK14, MAPK3, PABPC1, PDK1, PDK2, PRKCA, PTEN, RPS6KB1.

Other Genes Involved in the AKT Signaling Pathway: CASP9, CHUK, FOXO1, NFKBIA.