



Project ID: IPD6123

Project Title: Defining the Akt1 interactome and delineating alterations in its composition as a function of cell cycle progression.

Description: Akt1 expressing Hek 293 cells were SILAC labeled to capture dynamic changes in Akt1 interactome as the cell cycle progresses from G0 to G1S and then G2 phase. This will help in understanding how Akt1 extends its regulatory effect upon cell cycle progression.

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Sample Preparation: Stable Akt1 cell line was cultured in light, medium and heavy labeled SILAC media.

Peptide Separation: Light labeled cells were arrested in G0 phase, medium in G2 and heavy in G1S phase. Equal number of cells were pooled, lysed and subjected to AP-MS.

Protein Characterization: wiff files generated from AB SCIEX 5600 triple TOF instrument were submitted to protein pilot software and resulted in 18 group files. for database search in protein pilot, following parameters were used- two missed cleavages were allowed, auto bias correction for heavy to light ratio. 1% G-FDR-fit and atleast one peptide with 95% confidence for the relative expression

Experiment Type: Affinity purification coupled with mass spectrometry proteomics

Species: Data in species_details No Data

Tissue: Data in tissue details No Data

Cell Type: No Data

Disease: Unknown No Data

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Instrument Details: TripleTOF 5600 (MS:1000932) Data in instrument_details

Protein Modifications: monohydroxylated residue, iodoacetamide derivatized residue

PubMed ID: 28243621

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