

Suppl. Table 3. Signal transduction pathways that are significantly differentially regulated ($p < 0.05$, corrected for multiple testing) between UKF-NB-4^{Hi} and UKF-NB-4 cells but not between UKF-NB-4^{HiGCV} and UKF-NB-4 cells as identified by PANTHER pathway analysis (www.pantherdb.org).

Pathway (number of genes annotated in the pathway)	UKF-NB-4 ^{Hi} vs. UKF-NB-4 (rank ¹ /p-value/ genes affected ²)	UKF-NB-4 ^{HiGCV} vs. UKF-NB-4 (rank ¹ /p-value/ genes affected ²)
Apoptosis signaling pathway (131)	10/ 2.81×10^{-3} / 71	19/ 6.75×10^{-2} / 65
Axon guidance mediated by Slit/Robo (35)	14/ 1.45×10^{-2} / 26	27/ 3.97×10^{-1} / 22
FGF signaling pathway (148)	15/ 3.64×10^{-2} / 73	18/ 5.93×10^{-2} / 72

¹ Pathways were ranked by their p-values with the lowest p-value being rank 1

² Pathway genes differentially expressed between the data sets (FDR < 0.05). In total, 25,431 genes were annotated in the PANTHER reference list. 8,832 genes were differentially expressed between UKF-NB-4^{Hi} and UKF-NB-4, 8,873 between UKF-NB-4^{HiGCV} and UKF-NB-4.