

GeDiPNet Cluster 79 -- Enriched Pathways

Pathway enrichment: KEGG + Reactome, upper-tail hypergeometric test, Benjamini-Hochberg FDR-corrected. Fold enrichment = (overlap / cluster gene count) / (pathway gene count / universe size). Top 15 pathways per cluster by q-value. See [scripts/build_cluster_enrichment.php](#) on [gedipnet.bicnirrh.res.in](#). Data as of: 2026-10-07 03:30:09. · Rows: 15 · Generated: 2026-10-07 11:29:09

Pathway	Source	Overlap Genes	Overlap Gene Names	Pathway Gene Count	Cluster Gene Count	Fold Enrichment	P-value	FDR Q-value
Apoptosis	KEGG	7	AKT2, FOS, RAF1, TP53, LMNB2, LMNA, PARP2	137	49	12.52	1.242e-6	5.900e-5
Apelin signaling pathway	KEGG	7	AKT2, CCN2, RAF1, GNG3, LIPE, PLIN1, NOTCH3	140	49	12.26	1.436e-6	6.685e-5
Breast cancer	KEGG	7	AKT2, FOS, ERBB2, RAF1, TP53, WNT4, NOTCH3	148	49	11.59	2.085e-6	9.114e-5
Endocrine resistance	KEGG	6	AKT2, FOS, ERBB2, RAF1, TP53, NOTCH3	99	49	14.85	2.828e-6	1.182e-4
Regulation of lipolysis in adipocytes	KEGG	5	AKT2, CIDEC, LIPE, PLIN1, PLAAT3	59	49	20.77	3.890e-6	1.549e-4
Hepatocellular carcinoma	KEGG	7	AKT2, GSTM1, GSTT1, RAF1, TP53, WNT4, ACTL6B	170	49	10.09	5.239e-6	1.971e-4
Pathways in cancer	KEGG	11	AKT2, FOS, PPARG, ERBB2, GSTM1, GSTT1, RAF1, TP53, WNT4, GNG3, NOTCH3	533	49	5.06	7.442e-6	2.619e-4
Platinum drug resistance	KEGG	5	AKT2, ERBB2, GSTM1, GSTT1, TP53	75	49	16.34	1.277e-5	4.115e-4
Fluid shear stress and atherosclerosis	KEGG	6	AKT2, CAV1, FOS, GSTM1, GSTT1, TP53	141	49	10.43	2.173e-5	6.394e-4
Chemical carcinogenesis - receptor activation	KEGG	7	AKT2, FOS, CYP3A4, GSTM1, GSTT1, KPNB1, RAF1	215	49	7.98	2.424e-5	6.993e-4
Endometrial cancer	KEGG	4	AKT2, ERBB2, RAF1, TP53	59	49	16.62	9.437e-5	2.142e-3
Thyroid hormone signaling pathway	KEGG	5	AKT2, RAF1, TP53, WNT4, NOTCH3	122	49	10.05	1.329e-4	2.822e-3
Kaposi sarcoma-associated herpesvirus infection	KEGG	6	AKT2, FOS, PPP3CA, RAF1, TP53, GNG3	196	49	7.50	1.365e-4	2.881e-3
Proteoglycans in cancer	KEGG	6	AKT2, CAV1, ERBB2, RAF1, TP53, WNT4	204	49	7.21	1.698e-4	3.436e-3
Prolactin signaling pathway	KEGG	4	AKT2, FOS, RAF1, SOCS7	71	49	13.81	1.944e-4	3.823e-3