

GeDiPNet Cluster 581 -- 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](scripts/build_cluster_enrichment.php) on gedipnet.bicnirrh.res.in. Data as of: 2026-10-20 03:30:09. · Rows: 15 · Generated: 2026-10-20 00:02:42

Pathway	Source	Overlap Genes	Overlap Gene Names	Pathway Gene Count	Cluster Gene Count	Fold Enrichment	P-value	FDR Q-value
IKBKB deficiency causes SCID	Reactome	1	CHUK	3	3	1334.44	7.493e-4	9.089e-3
IKBKG deficiency causes anhidrotic ectodermal dysplasia with immunodeficiency (EDA-ID) (via TLR)	Reactome	1	CHUK	3	3	1334.44	7.493e-4	9.089e-3
IκBA variant leads to EDA-ID	Reactome	1	CHUK	7	3	571.90	1.748e-3	1.725e-2
AKT phosphorylates targets in the cytosol	Reactome	1	CHUK	11	3	363.94	2.745e-3	2.394e-2
NF-κB activation through FADD/RIP-1 pathway mediated by caspase-8 and -10	Reactome	1	CHUK	12	3	333.61	2.995e-3	2.538e-2
MAP3K8 (TPL2)-dependent MAPK1/3 activation	Reactome	1	CHUK	14	3	285.95	3.493e-3	2.829e-2
IRAK1 recruits IKK complex	Reactome	1	CHUK	15	3	266.89	3.743e-3	2.976e-2
IRAK1 recruits IKK complex upon TLR7/8 or 9 stimulation	Reactome	1	CHUK	15	3	266.89	3.743e-3	2.976e-2
RIP-mediated NFκB activation via ZBP1	Reactome	1	CHUK	17	3	235.49	4.241e-3	3.256e-2
TICAM1, RIP1-mediated IKK complex recruitment	Reactome	1	CHUK	20	3	200.17	4.988e-3	3.635e-2
TRAF6 mediated NF-κB activation	Reactome	1	CHUK	24	3	166.81	5.984e-3	4.097e-2
Constitutive Signaling by AKT1 E17K in Cancer	Reactome	1	CHUK	25	3	160.13	6.232e-3	4.212e-2
IKK complex recruitment mediated by RIP1	Reactome	1	CHUK	25	3	160.13	6.232e-3	4.212e-2
Antifolate resistance	KEGG	1	CHUK	30	3	133.44	7.476e-3	4.730e-2
ER-Phagosome pathway	Reactome	1	CHUK	30	3	133.44	7.476e-3	4.730e-2