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Tumor-derived fibulin-3 activates pro-invasive NF-kappa B signaling in glioblastoma cells and their microenvironment

Supplementary Table S-IV:

INGENUITY PATHWAY ANALYSIS

TOP NETWORKS CONTAINING NFKB-REGULATED GENES POORLY CORRELATED WITH EFEMP1

Top Diseases and Functions	Score	Focus Molecules
Cellular development; cell growth and proliferation	33	ABCC6, ALOX12, CCL17, HAMP, IL32, IL12B, LCN2, LIPG, NOX1, NUAK2, PLK3, SDC4, SENP2, SLC11A2, ST8SIA1, TAP1, VEGFC
Immune cell-to-cell signaling; immune cell trafficking	26	CCL11, CCL20, CCL22, CFB, CXCL5, DEFB4A, EBI3, ENG, FSTL3, KRT6B, LBP, NFKBIE, PTX3, ST6GAL1
Hemathological system development; lymphoid tissue structure	21	AICDA, BLC2L11, BLNK, CD38, CRP, IL15, IL15RA, IL23A, KISS1, MTHFR, PRDM1, RAG2
Cellular movement; organismal injury and abnormalities	21	ABCB4, AGER, AMACR, CD48, PIK3CA, PLAU, S100A4, S100A6, SERPINE1, SNAI1, SP7, TWIST1
Cell-mediated immune response; cellular development	19	BRCA2, CFLAR, CYP27B1, IL2, IRF1, MYOZ1, NR4A2, PSME1, RBBP4, SERPINB1, UPP1
Inflammatory response; organismal injury and abnormalities	15	CALCB, CASP4, CXCL3, CYP19A1, EDN1, GSTP1, NGF, SOD1
Cell morphology; cell growth and proliferation; connective tissue development	15	APOBEC2, CREB3, HOXA9, OPN1SW, PPARGC1B, SH3BGRL, SLC16A1, TRAF1, TRAF2
Cell death and survival; dermatological diseases and conditions	11	ART1, BAX, KRT5, LEF1, PRKCD, RELB, VIM
Nervous system development; cell-to-cell signaling; cellular function and mainten	9	BDKRB1, IL17A, MBP, NRG1, PTEN, TACR1
Inflammatory disease; cell signaling; cell-to-cell signaling	4	OPRD1, PTAFR, UPK1B

TOP NETWORKS CONTAINING NFKB-REGULATED GENES HIGHLY CORRELATED WITH EFEMP1

Top Diseases and Functions	Score	Focus Molecules
Cellular movement; tissue development	26	AR, BMI1, BMP4, CCDN1, EPHA1, FGF8, GATA3, HMGN1, PGR, SERPINE2, SOX9, SPP1, TERT, TP53
Cell-to-cell signaling and interaction; inflammatory response	23	APOC3, ASPHH, IL10, IL11, IL1A, IL2RA, KRT3, MMP3, SLC3A2, SLC6A6, TLR2, TREM1, WT1
Cell-to-cell signaling and Interaction; Cellular Movement	19	ABCA1, CCL4, CCL5, CCL28, HBE1, HBZ, HIF1A, IFNG, NQO1, ORM1, SELP, TNC
Cancer; cell death and survival; organismal injury	17	B2M, CCL15, CD86. CXCL9, GBP1, HLA-G, IRF4 SLC2A5, TFEC, TNFSF10
Cell-to-cell signaling and interaction; cellular movement	15	ATP1A2, CTSB, CXCR2, FCER2, FCGRT, MMP1, OLR1, TFPI1, TNFSF13B
Cell cycle; cellular development; cellular growth and proliferation	12	CEBPD, E2F3, EPO, G6PC, JUNB, MYB, PIM1, SKP2
Cell-to-cell signaling and interaction; Immune cell response	12	ADORA1, ADORA2A, CCL2, CCR5, CCR7, FASLG, KCNK5, NPY1R
Cellular function and maintenance, cell morphology; cancer; cell death and surviv	11	CD74, CHI3L1, ELF3, LTB, NLRP2, NOD2, TNF
Organismal injury and abnormalities; tissue morphology	11	AKP, APOE, F3, IL12A, MDK, PTGDS, TFF3,
Cellular assembly and organization; cellular development; auditory disease	9	AQP4, ARFRP1, GZMB, KRT15, SERPINA3, TNC