

Supporting Information

Meckes et al. 10.1073/pnas.1303906110

Table S1. Pathways predicted to be activated by EBV exosomes and by Kaposi sarcoma-associated virus (KSHV) and EBV_KSHV exosomes

Upstream regulator	Molecular type	Activation z-score	<i>P</i> value overlap	No. of molecules in dataset
Pathways predicted to be activated by EBV exosomes				
Tumor protein 53	Transcriptional regulation	2.842	5.47E-27	80
IFN- γ	Cytokine	2.208	1.06E-14	57
TNF	Cytokine	2.659	2.1E-09	57
CD40LG	Cytokine	2.284	9.58E-09	25
Structural maintenance of chromosome 3 (SMC3)	Other	2	4.00E-07	4
Epstein-Barr virus induced gene 3 (EBI3)	Cytokine	2.779	5.42E-07	8
Double-strand-break repair protein rad21 homolog (RAD21)	Cytokine	2	2.73E-06	4
IL-27	Transcriptional regulation	2.66	4.39E-06	10
Interferon alpha 2	Transcriptional regulation	2.289	5.03E-06	15
JUN	Kinase	2.115	1.66E-05	19
Class II, major histocompatibility complex, transactivator (CIITA)	Group	2.223	2.04E-05	6
Janus kinase 1 (JAK1)	Group	2.383	2.88E-05	6
Interferon alpha (INFA)	Transcriptional regulation	2.354	3.45E-05	17
Interferon	Group	2.727	5.10E-05	9
CD2	Transcriptional regulation	2.425	5.35E-05	6
Gastrin (GAST)	Other	2.63	1.66E-04	7
Beta-2 microglobulin (B2M)	transmembrane receptor	2	7.74E-04	4
Fms-related tyrosine kinase 3 ligand (FLT3LG)	Cytokine	2.219	9.52E-04	5
V-Rel reticuloendotheliosis viral oncogene homolog A (RELA)	Transcriptional regulation	2.738	1.06E-03	14
IL-8	Cytokine	2.169	3.22E-03	5
NFKB1	Transcriptional regulation	2.213	3.67E-03	10
Insulin receptor (INSR)	Kinase	2.433	4.03E-03	13
SAM pointed domain-containing Ets transcription factor (SPDEF)	Transcriptional regulation	2	5.92E-03	5
Aryl hydrocarbon receptor nuclear translocator 2 (ARNT2)	Transcriptional regulation	2.138	2.40E-02	8
Single-minded homolog 1 (SIM1)	Transcriptional regulation	2.138	2.79E-02	8
Myeloid differentiation primary response gene 88 (MYD88)	Other	2.428	3.21E-03	8
Microphthalmia-associated transcription factor (MITF)	Transcriptional regulation	2.433	4.17E-02	6
Interferon beta 1	Cytokine	2.021	5.91E-02	8
Interferon regulatory factor 7	Transcriptional regulation	2.238	6.52E-02	5
Mitogen-activated protein kinase (MAPK)	Group	2	8.78E-02	4
Tol-like receptor (TLR)	Group	2	9.54E-02	4
Leptin (LEP)	Growth factor	2.103	9.62E-02	10
Inhibin alpha (INHA)	Growth factor	2	9.80E-02	4
Tumor necrosis factor (ligand) superfamily, member 11 (TNFSF11)	Cytokine	2.189	9.91E-02	7
Colony stimulating factor 2 (CSF2)	Cytokine	2.415	1.83E-01	7
Pathways predicted to be activated by KSHV and EBV_KSHV exosomes				
Mitogen activated protein kinase 1 (MAPK1)	Kinase	2.010	9.11E-04	14
PI3K (family)	Group	2.00	2.00E-03	4
Let-7	MicroRNA	2.219	1.21E-02	6
Growth factor independent 1 transcription repressor (GF1)	Transcriptional regulation	2.236	1.48E-02	5
Cyclin-dependent kinase inhibitor 1B (CDKN1B)	Kinase	2.00	3.56E-02	5

Other Supporting Information Files

[Dataset S1 \(XLSX\)](#)

[Dataset S2 \(XLSX\)](#)

[Dataset S3 \(XLSX\)](#)