

Table 2 Enrichment analysis of hub genes in KEGG pathways and MSigDB Hallmarks

	Term	P-value	Overlap	Genes
KEGG Pathway	Natural killer cell mediated cytotoxicity	4.65E-10	7/131	<i>FCER1G;SYK;ITGB2;RAC2;HLA-B; HLA-A;TNF</i>
	NF-kappa B signaling pathway	5.87E-09	6/104	<i>LYN;NFKBIA;SYK;IL1B;TNF;TLR4</i>
	NOD-like receptor signaling pathway	1.61E-07	6/181	<i>NFKBIA;IL1B;NOD2;TNF;TLR4; RHOA</i>
	TNF signaling pathway	4.46E-07	5/112	<i>NFKBIA;CEBPB;IL1B;NOD2;TNF</i>
	Cell adhesion molecules	1.78E-06	5/148	<i>CD4;ITGAM;ITGB2;HLA-B;HLA-A</i>
	Chemokine signaling pathway	6.36E-06	5/192	<i>LYN;NFKBIA;WAS;RAC2;RHOA</i>
	IL-17 signaling pathway	8.59E-06	4/94	<i>NFKBIA;CEBPB;IL1B;TNF</i>
	Rap1 signaling pathway	9.82E-06	5/210	<i>CSF1R;ITGAM;ITGB2;RAC2;RHOA</i>
	Toll-like receptor signaling pathway	1.28E-05	4/104	<i>NFKBIA;IL1B;TNF;TLR4</i>
	Sphingolipid signaling pathway	2.18E-05	4/119	<i>FCER1G;RAC2;TNF;RHOA</i>
MSigDB Hallmark	Interferon Gamma Response	8.92E-09	7/200	<i>BST2;NFKBIA;CD74;HLA-B; CD38; HLA-A; B2M</i>
	TNF-alpha Signaling via NF-kB	2.91E-07	6/200	<i>STAT5A;NFKBIA;CEBPB;IL1B; PLEK;TNF</i>
	Complement	2.91E-07	6/200	<i>LYN;CEBPB;ITGAM;FCER1G;PLEK;WAS</i>
	Inflammatory Response	7.75E-06	5/200	<i>LYN;BST2;NFKBIA;IL1B;NOD2</i>
	KRAS Signaling Up	1.65E-04	4/200	<i>FCER1G;IL1B;ITGB2;LCP1</i>
	IL-6/JAK/STAT3 Signaling	2.41E-04	3/87	<i>IL1B;CD38;TNF</i>
	Interferon Alpha Response	3.32E-04	3/97	<i>BST2;CD74;B2M</i>

Results are limited to OvCa-related terms.