Dendritic cell extracellular
Dendritic cell membrane
Dendritic cell cytosol
Dendritic cell nucleus
Dendritic cell mitochondria
Dendritic cell endoplasmic reticulum
TNF
**Autophosphorylation
TSLP
CRLF2; IL7R
IFNG
*Flagellin
*TLR ligand
Resiquimod extracellular region
*LPS extracellular region
**Histamine extracellular region
LY96
CD14
HRH2
IFNGR1; IFNGR2
TLR5
TLR4
HRH1
HRH4
HRH3
*Unmethylated CpG DNA intracellular
*Virus ssRNA extracellular region
**TLR3 and TLR4 induce TICAM1-specific signaling pathway
**Dendritic cell migration
TIRAP
TLR9
TLR7
TLR8
MYD88
IRAK4
IRAK2
PELI1
IRAK1
UBE2V1
UBE2N
TRAF6
PELI3
PELI2
UBB;UBC
TAB3
TAB2
TAB1
GAB2
LYN
SYK
LCP2
BTK
BLNK
FER
IKBKG
MAP3K7
MAPK14
MAPK13
MAPK12
MAPK11
MAPK10
MAPK8
MAPK9
MAPK3
MAPK1
MAPK7
MAPK6
MAPK4
MAPK15
MAPK1;MAPK3
MAPK14;MAPK11;MAPK13;MAPK12
DAB2IP
TRAF2
SMURF2
TRAF1
BIRC2
BIRC3
MAP3K5
TRAF3
ZFP91
MAP3K14
RELA;REL;NFKB1;NFKB2
CLDN7
TNFSF4
*Regulation of tight junction assembly
MAP2K4
MAP2K7
**Immune response
**Anti-apoptotic NFs;NF-kB;Bcl-2 pathway
RAC1
PAK2
MAP3K1
MAP3K8
MAP2K1; MAP2K2
RPS6KA1; RPS6KA2; RPS6KA3
RPS6KA4; RPS6KA5
CCL11
ATF2
CXCL8
CCL2
IL6
CHUK; IKBKB
NFKBIA
**Regulation of apoptosis
**IL-8 dependent cell migration and adhesion
**IL-8-dependent cell migration and adhesion
**CCL2-induced chemotaxis
**IL-6 signaling pathway
**IL-6 signaling pathway
*Proinflammatory response
**CCR3 signaling in eosinophil
**Chemotaxis
**Regulation of chemotaxis
**Inflammatory response
**Cell proliferation
**Histamine H1 receptor signaling; Innate immune response
**AKT signaling
**Endothelial cell migration
**Regulation of EF-tf activity
**Angiogenesis
**Regulation of translation
CAMK2A; CAMK2B; CAMK2D;CAMK2G
PPP3CA; PPP3CB; PPP3CC
AFAP1
SRC
LAT
GRB2
FCER1A; FCER1G; MS4A2
TNFRSF1B
KDR
BMX
**Immunological synapse formation
CD86
BCL2
BCL2L11
BCL2L1
BMF
**Apoptosis
FOS;ATF2; FOSB;JUN;FOS2; JUND;FOS;JUNB
NFKBA; NFKBB; NFKBE
RELA;REL; NFKB1; REL2;NFKB2
CREB1
CREM
NFATC2
NFATC1
IRF8
IRF5
STAT4
IRF7
STAT5A;STAT5B
MAPK1;MAPK3
CEBPB
BRCA1
MCM5
EP300
CREBBP
STAT6
NFATC4
STAT3
ELK1
STAT1;STAT2;IRF9
MYC
IRF1
SMAD7
IL18
**IL-1 signaling pathway
NOS2
**NO synthesis and signaling
**NO production
CCL4; CCL4L1
CCL3
IL12B
**Th1 cell development
**Interleukin-12 signaling; Pro-inflammatory TNF-alpha signaling
TNF
**Interleukin-12 signaling; Pro-inflammatory TNF-alpha signaling
IL10
CCL5
**Anti-inflammatory response
**IL-12 signaling pathway
*IL-10 signaling pathway
SOS1;SOS2
PTGS2
**Prostaglandin 2 biosynthesis and metabolism
**Production of prostaglandins
CCL17
**CCR4-induced chemotaxis of immune cells
IL4
*IL-4 signaling pathway
CISH
BCL2
PLA2G4A; PLA2G4C
**Regulation of apoptosis by mitochondrial proteins
**Arachnoid acid production
**Anti-apoptosis
IFNA1;IFNB1;IFNA13;IFNA14; IFNA16;IFNA17;IFNA2;IFNA21; IFNA4;IFNA5;IFNA6;IFNA7;IFNA8
IFNB1
**Antiviral actions of Interferons
*Antiviral actions of Interferons
CDKN1A
ICAM1
**TGF-beta receptor signaling
SOCS3
**ATM;ART regulation of G1/S checkpoint
**Cell adhesion
**Cell cycle regulation
JAK1
JAK2
PIK3R1; PIK3R2; PIK3R3
PIK3CA; PIK3CB; PIK3CD
HRAS
*PtdIns(3,4,5)P3
PDPK1
AKT1; AKT2; AKT3
PRKCD
EIF2AK2
**Regulation of EIF2 activity
PTPN11
CBL
PTK2B
MAP3K4
MAP2K6
*PtdIns(4,5)P2
PLCG1; PLCG2
PLCB1; PLCB2; PLCB3;PLCB4
*1,2-Diacylglycerol
*IP3
PRKCQ
*Ca(2+)
ITPR1; ITPR2; ITPR3
RAF1
*Ca(2+)
PRKCA
CALM1; CALM2; CALM3
ENAH;CNAP1
ENAH1;CNAD; CNAP1;CNAD1; CNAP2
CNR1;CNR2;CNR6;CNR5; CNGA1;CNGA2;CNGA3;CNGA4; CNGB1;CNGB3;CNGA5;CNGA6; CNGB2;CNGA7;CNGB1;CNGT2
CRKL
RAPGEF1
RAP1A
**Inhibition of cell proliferation
CNAS
ADCY1;ADCY2;ADCY3; ADCY4;ADCY5;ADCY6; ADCY7;ADCY8;ADCY9
*Pyrophosphate
*Cyclic AMP
PRKAR1A; PRKAR1B; PRKAR2A;PRKAR2B
PRKACA; PRKACB; PRKACG
FANCC
IGHE;IGHG1;IGHG2;IGHG3; IGHG4;IGHJ5;IGHJ6;IGK; IGKC;IGKJ1;IGKJ2;IGKJ3; IGKJ4;IGKJ5;IGLC1;IGLJ3;IGLV3