Th2:extracellular

Th2:membrane

Th2:cytosol

Th2:nucleus

Th2:endoplasmic reticulum

CD4

CD86

CD80

CD28

HLA-DMA;HLA-DMB;HLA-DOA;HLA-DQB;HLA-DPA1;
HLA-DPB1;HLA-DPB2;HLA-DQA1;HLA-DQA2;
HLA-DQB1;HLA-DQB2;HLA-DQB3;HLA-DRA;
HLA-DRB1;HLA-DRB3;HLA-DRB4;HLA-DRB5;LOC100509457

TRAC;TRAJ18;TRAV24;
TRB;TRBV11-1;TRBV11-2;
TRBV11-3;TRBV17

LCK

CD247;
CD3D;CD3E;
CD3G

ZAP70

CBL

CARD11

BCL10

UBE2V2

UBE2N

MALT1

MYD88

UBB;UBC

IRAK4

IRAK1

IKBKG

TRAF6

PIK3R1;
PIK3R2;
PIK3R3

CRKL

RAPGEF1

RAP1A

**Inhibition of
cell proliferation

*PtdIns(4,5)P2

PIK3CA;
PIK3CB;
PIK3CD

*PtdIns(3,4,5)P3

TAB1

TAB2

MAP3K7

PDPK1

AKT1;
AKT2;
AKT3

MAP2K3

MAP3K14

MAP2K7

MAP2K4

**Regulation
of EIF4F activity

NOS3

*N-Omega-
Hydroxy-
L-arginine

IKBKB;
CHUK

MAPK10;
MAPK8;
MAPK9

*NO

*L-Citrulline

ATF2

JUN

NFKBIA;
NFKBIB;
NFKBIE

EP300

CREBBP

MCM5

BRCA1

CEBPB

RELA;REL;
NFKB1;RELB;
NFKB2

STAT1;
IRF9;STAT2

RPS6KA5

IRF1

MYC

SMAD7

**Angiogenesis

GRB2

CXCL8

CSF2

VCAM1

SELE

CCL2

ICAM1

TNF

CXCL1

IL6

IL13

IL5

EIF2AK2

SOCS1

CDKN1A

**TGF-beta
receptor
signaling

IL17F

**IL-8 dependent
cell migration
and adhesion

**GM-CSF
signalling

**Cell adhesion

**Inhibitory action of
Lipoxins on
pro-inflammatory
TNF-alpha signalling

**IL-6 signalling
pathway

**IL-13 signaling
via PI3K-ERK

**IL-13 signaling
via JAK-STAT

**IL-5 signalling

**Regulation
of EIF2 activity

JAK2

JAK1

**ATM/ART
regulation of
G1/S checkpoint

PTPN11

GRAP2

ITK

**Regulation of
translation

**Inflammatory
response

PLCG2

**Cell cycle
regulation

PTK2B

LCP2

PLCG1

VAV1

*IP3

*1,2-Diacylglycerol

MAP3K4

RAC1

PRKCQ

*Ca(2+)

ITPR1;
ITPR2;
ITPR3

PRKCD

PRKCA

MAP2K6

**Regulation of
actin cytoskeleton
by Rho GTPases

*Ca(2+)

AFAP1

MAPK14;
MAPK11;MAPK13;
MAPK12

**Cytoskeleton
remodeling

CALM1;
CALM2;
CALM3

SRC

CAMK2A;
CAMK2B;CAMK2D;
CAMK2G

LAT

IFNG

IL33

IFNGR1;
IFNGR2

IL1RAP

TMED1

H2AFX;H2AFZ;HIST1H2AC;
HIST1H2AD;HIST1H2AG;HIST1H2AI;
HIST1H2AJ;HIST1H2AK;HIST1H2AL;
HIST1H2AM;HIST2H2AC

H2BFS;HIST1H2BB;HIST1H2BC;HIST1H2BD;
HIST1H2BE;HIST1H2BF;HIST1H2BG;HIST1H2BH;
HIST1H2BI;HIST1H2BJ;HIST1H2BL;HIST1H2BM;
HIST1H2BN;HIST1H2BO;HIST2H2BE;LOC102724334

MAP3K1

MAP2K1;
MAP2K2

FANCC

MAPK1;
MAPK3

IL1RL1