

7 Abbreviations

A	adenosine
aa	amino acid
AP-1	activator protein-1
APC	antigen presenting cell
APS	ammonium persulfate
ARD	ankyrin repeat domain
as	anti-sense
Bcl	B-cell chronic lymphocytic leukemia/lymphoma associated
BIR	baculovirus inhibitor of apoptosis protein repeat
BSA	bovine serum albumin
C	cytosine
CARD	caspase recruitment domain
Carma1	CARD containing MAGUK protein 1
CBM	Carma1/Bcl10/Malt1
CC	coiled coil
CLD	caspase like domain
CoIP	co-immunoprecipitation
C-Terminus	Carboxyl-Terminus
dATP	desoxy adenosine triphosphate
dCTP	desoxy cytosine triphosphate
DD	death domain
dGTP	desoxy guanosine triphosphate
DMEM	Dulbecco's modified Eagle medium
DMSO	dimethylsulfoxide
DNA	desoxyribonucleic acid
dNTP	desoxy nucleotide triphosphate
DTT	1,4-dithiothreitol
ECL	enhanced chemiluminescence
EDTA	ethylene diamine tetraacetate
Erk	extracellular signal regulated kinase
FACS	fluorescence activated cell sorting
FCS	fetal calf serum
Fl	full length
G	guanosine
GEF	guanine nucleotide exchange factors
GRR	glycine rich regions
GSH	glutathione
GST	glutathione-S-transferase
GUK	guanylate kinase like motif
HA	hemagglutinin
HBS	HEPES buffered saline
HECT	homologous to E6-associated protein carboxyl terminus
HEK	human embryonic kidney
HEPES	2-[4-(2-Hydroxyethyl)-1-piperazino]-ethansulfonic acid
HLH	helix-loop-helix
HRP	horseradish peroxidase
I	ionomycin
IAP	inhibitor of apoptosis

IgG	immunoglobulin
I κ B	inhibitor of NF- κ B
IKK	I κ B kinase
IL	interleukin
IL-2-APC	IL-2-Allophycocyanin
IL-R	IL-receptor
IP	immunoprecipitation
IPTG	isopropyl thiogalactoside
IRAK	IL-1 receptor associated kinase
IRES	internal ribosome entry segment
ITAM	intracellular immunoreceptor tyrosine-based activation motif
Jnk	Jun N-terminal kinase
kb	kilo base
kD	kilo dalton
LAT	linker of activation in T-cells
LB	Luria-Bertani medium
Lck	lymphocyte protein tyrosine kinase
LFA1	lymphocyte function associated antigen 1
LPS	lipopolysaccharide
LZ	leucine zipper
MAGUK	membrane associated guanylate kinase
MAIL	molecule possessing ankyrin repeats induced by lipopolysaccharide
Malt1	mucosa associated lymphoid tissue 1
MAPK	mitogen activated protein kinase
MHC	major histocompatibility complex
min	minute
MTOC	microtubule organisation centre
MyD88	myeloid differentiation factor 88
NaCl	Sodium chloride
NBD	NEMO binding domain
Nedd4	neural precursor cell expressed developmentally down-regulated 4
NEM	N-ethylmaleimide
NF-AT	nuclear factor of activated T-Cells
NF- κ B	Nuclear Factor κ B
NLS	nuclear localization sequence
NP-40	Nonidet P-40
OD	optical density
PAGE	polyacrylamid gelelectrophoresis
PBS	phosphate buffered saline
PCR	polymerase chain reaction
PDK1	phosphatidyl dependent kinase 1
PDZ	PSD95/Dlg/ZO-1 Homologous
P/I	PMA/ionomycin
PI3K	phosphinositol-3 kinase
PKC	protein kinase C
PLC γ	phospholipase C γ
PMA	phorbol 12-myristate 13-acetate
RHD	Rel homology domain
RING	really interesting new gene
RIP	receptor interacting protein
RNA	ribonucleic acid

rpm	rounds per minute
RT	room temperature
s	sense
SDS	sodiumdodecylsulfate
SDS-PAGE	SDS-polyacrylamid-gelelectrophoresis
sec	second
SH	Src homology
SiRNA	small inhibitory RNA
SLP76	SH2 containing leukocyte protein of 76 kD
SMAC	supra molecular activation complex
SUMO	small ubiquitin like modifier
T	thymidine
TAB	TAK1 binding protein
TAD	transactivation domain
TAK1	transforming growth factor β activated kinase 1
TBE	Tris-boric acid-EDTA
TCR	T cell receptor
TEMED	N,N,N',N'-tetramethylethylendiamine
Thy1	Thymus cell antigen
TIR	Toll/IL-1R
TLR	Toll like receptor
TNF α	Tumor necrosis factor α
TNFR	TNF receptor
TRADD	TNF receptor associated death domain
TRAF	TNF-receptor associated factor
Tris	Tris(hydroxymethyl)-aminomethan
U	unit
Ubc13	ubiquitin conjugating enzyme 13
Ub	ubiquitin
Uev1A	ubiquitin E2 variant 1A
UV	ultraviolet radiation
WB	Western blot
WT	wildtype
ZAP70	zeta chain associated protein
ZF	zinc finger