

1. Abbreviations

ml	:	Millilitre
%	:	Percent
μ M	:	Micromolar
μ l	:	Microlitre
$^{\circ}$ C	:	Degree Celsius
Ab	:	Antibody
Ag	:	Antigen
APC	:	Antigen presenting cell
BSA	:	Bovine serum albumin
cDNA	:	Complementary DNA
CD	:	Cluster of differentiation
CL	:	Cutaneous Leishmaniasis
CO ₂	:	Carbon dioxide
CSA	:	Crude Soluble Antigen
CTL	:	Cytotoxic T lymphocyte
DC	:	Dendritic cell
DNA	:	Deoxy-Ribo Nucleic Acid
dNTP	:	Deoxy-Nucleotide Triphosphate
DTT	:	Dithiothreitol
DMSO	:	Dimethyl sulfoxide
ELISA	:	Enzyme linked immunosorbent assay
ERK	:	Extracellular stress-regulated kinase
FBS	:	Fetal bovine serum

FCS	:	Fetal calf serum
HCl	:	Hydrochloric acid
HP	:	High Passage
HEPES	:	(N-[2-hydroxyethyl]piperazine-n'-[2-ethanesulfonic acid])
Hr	:	Hour
HRP	:	Horse radish peroxidase
IM	:	Infected macrophages
IFN	:	Interferon
IgG	:	Immunoglobulin
IL	:	Interleukin
INOS	:	Inducible nitric oxide synthase
JAK	:	Janus Kinase
JNK	:	c-Jun N-terminal kinases
KDa	:	Kilo Dalton
LDU	:	Leishman Donovan Unit
LP	:	Low Passage
M ϕ	:	Macrophages
MAPK	:	Mitogen-activated protein kinase
MAPKK	:	Mitogen-activated protein kinase kinase
MAPKKK	:	Mitogen-activated protein kinase kinase kinase
M10	:	Mitogen-activated protein kinase 10
MEK	:	MAPK / ERK kinase
MHC	:	Major Histocompatibility Complex
MKP	:	MAPK Phosphatase

mM	:	Milli molar
nM	:	Nano molar
Ng	:	Nano gram
NO	:	Nitric Oxide
NK cell	:	Natural killer cell
PAMP	:	Pathogen associated molecular pattern
PBMC	:	Peripheral blood mononuclear cells
PBS	:	Phosphate buffer saline
PCR	:	Polymerase chain reaction
PKDL	:	Post Kala-azar Dermal Leishmaniasis
PRR	:	Pattern recognition receptor
RNA	:	Ribonucleic acid
RPMI 1640	:	Rosewell park memorial institute medium number 1640
ROS	:	Reactive oxygen species
RT-PCR	:	Reverse transcriptase polymerase chain reaction
SOCS	:	Suppressor of cytokine signaling
SP	:	Sodium pyruvate
STAT	:	Signal transducer and activator of transcription
Streptavidine POD	:	Streptavidine coupled to peroxidase from horse radish
TNF α	:	Tumor necrosis factor alpha
TGF β	:	Transforming growth factor beta
TCR	:	T cell receptor
UIM	:	Uninfected macrophages
VL	:	Visceral Leishmaniasis