

Abbreviations

ACP	Acid Phosphatase
AE-AP 500	Aqueous Extract of <i>Andrographis paniculata</i> 500
Aifm	Apoptosis-Inducing Factor Mitochondrion-Associated
Aldh3	Aldehyde dehydrogenase class 3
ALP	Alkaline Phosphatase
ALT	Alanine Aminotransferase
ANOVA	Analysis of Variance
AO	Acridine Orange
Apaf1	Apoptotic protease activating factor 1
Apo J / CLU	Apolipoprotein J/ Clusterin
AST	Aspartate Aminotransferase
ATM	Ataxia Telangiectasia Mutated gene
ATP	Adenosine Tri-Phosphate
Bak	Bcl-2 homologous antagonist killer
Bax	Bcl-2-associated X protein
Bcl-2	B-cell lymphoma 2
Bid	BH3 interacting-domain death agonist
Brca1	Breast cancer gene 1
Brca2	Breast cancer gene 2
CAT	Catalase
CCl₄	Carbon tetrachloride
CDC	Cell Division Cycle
CD	Conjugated Dienes
CDK4	Cell Cycle Dependent Kinase 4
CDK5	Cell Cycle Dependent Kinase 5
CK2	Casein Kinase 2

CO₂	Carbon dioxide
Cr⁶⁺/ CR (VI)	Hexavalent chromium
Cyp1a1	Cytochrome P450 1A1
Cyp1b1	Cytochrome P450 1B1
DAPI	4', 6-Diamidino-2-Phenyl-Indole
DNA	Deoxyribo - Nucleic Acid
ELISA	Enzyme-Linked Immunosorbant Assay
ERK	Extra cellular signal Regulated Kinase
ETBR	Ethidium Bromide
FBS	Fetal Bovine Serum
FTIR	Fourier Transform Infrared Spectroscopy
Gadd45	Growth arrest and DNA damage 45 genes
GPx	Glutathione Peroxidase
GR	Glutathione Reductase
GSSG	Glutathione disulfide
Gsta1	Glutathione S transferase alpha 1
GST	Glutathione-S-Transferase
GTP	Guanosine Tri Phosphate
H&E	Haematoxylin and Eosin
H2DCFDA	2', 7'-Dichlorodihydrofluorescein Diacetate
H₂O₂	Hydrogen peroxide
HBV	Hepatitis B Virus
HCV	Hepatitis C Virus
HPLC	High performance Liquid Chromatography
HPV	Human Papilloma Virus
HRP	Horse Radish Peroxidase
HSP60	Heat Shock Proteins 60
HSP70	Heat Shock Proteins 70
HSP75	Heat Shock Proteins 75

i.p.	Intra peritoneal
IL-10	Interleukin-10
IL-12	Interleukin-12
IL-1	Interleukin-1
JNK	C-Jun-N-terminal Kinase
K₂Cr₂O₇	Potassium dichromate
LCK	Leukocyte C-terminal Src Kinase
LD50	Lethal dose 50
MAPK	Mitogen Activated Protein Kinase
MDA	Malonyl Di-Aldehyde
Mdc1	Mediator of DNA damage checkpoint 1
ME-AP250	Methanol Extract of <i>Andrographis paniculata</i> 250
ME-AP500	Methanol Extract of <i>Andrographis paniculata</i> 500
mg/kg bw/day	Milligram per kilogram of body weight per day
Mgmt	O [6]-Methylguanine-DNA Methyltransferase
Mito-ETC	Mitochondrial Electron Transport Chain
MLH 1	Mut L Homologue 1
MLH 2	Mut L Homologue 2
NaCl	Sodium Chloride
NADH	Nicotinamide Adenine Dinucleotide Hydrogen
NAD	Nicotinamide Adenine Dinucleotide
Nfkβ	Nuclear factor kappa Beta
NO	Nitric Oxide
Nqo1	NAD (P) H Quinone Dehydrogenase 1
ONOO⁻	Peroxynitrite
PAF	Platelet-Activating Factor
pAKT	Phosphorylated Protein Kinase B
PBS	Phosphate Buffer Saline
PBST	Phosphate Buffered Saline with Tween-20

PEE-AP250	Petroleum Ether Extract of <i>Andrographis paniculata</i> 250
PFA	Paraformaldehyde
Ras	Retrovirus-associated DNA sequences
ROS	Reactive Oxygen Species
RPMI	Roswell Park Memorial Institute
RTPCR	Reverse Transcriptase Polymerase Chain Reaction
SEM	Standard Error of Mean
SIAH1	Seven In Absentia Homolog 1
SOD	Super-Oxide Dismutase
SRL	Sisco Research Laboratory
STAT3	Signal Transducer and Activator of Transcription-3
TBARS	Thio-Barbituric Acid Reducing Substrate
TGF-β	Tumour Growth Factor Beta
TLC	Total Liquid Chromatography
Tnf	Tumor necrosis factor
TNF-α	Tumour Necrosis Factor Alfa
USA	United States of America
VEGF	Vascular Endothelial Growth Factor
WHO	World Health Organisation