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LIST OF ABBREVIATIONS

% percent

°C degree celsius

μg microgram

μl microliter

μM micromolar

γIFN gamma interferon

W/V weight by volume

APS ammonium persulfate

BSA bovine serum albumin

CO₂ carbon dioxide

COX-2 cyclooxygenase-2

DMEM dulbecco's modified eagle's medium

DMSO dimethyl sulfoxide

DTT dithiothreitol

DI deionized water

ECL enhance chemiluminescence

EDTA ethylenediaminetetraacetic acid

EGTA ethyleneglycoltetraacetic acid

ELISA enzyme-linked immunosorbent assay

eNOS endothelial nitric oxide synthase

FBS fetal bovine serum

g gram h hour

HEPES N-2-hydroxyethylpiperazine-N-2-ethanesulfonic acid

HIF1α hypoxia-inducible factor 1 alpha

HRP horseradish peroxidase

IL-6 interleukin-6

iNOS inducible nitric oxide synthase

IKK IκB kinase

IRF-3 interferon regulatory factor-3
IRAKs IL-1 receptor-associated kinase

ISRE interferon sensitive response element

KCL potassium chloride

l liter

LPS lipopolysaccharide

MAPKs mitogen-activated protein kinases

MTT 3-(4,5 dimethylthiazole-2yl)-2,5 diphenyltetrazolium

bromide

mg milligram

min minute

ml milliliter

nm nanometer mM milimolar

M molar

NaF sodium fluoride

NF-κB nuclear factor kappa B

Na₃VO₄ sodium orthovanadate

NaCl sodium chloride

NaHCO₃ sodium bicarbonate

Na₂HPO₄ disodium hydrogen phosphate

KH₂PO₄ potassium dihydrogen phosphate

NO nitric oxide

NOS nitric oxide synthase

nNOS neuronal nitric oxide synthase

PARP poly (ADP-ribose) polymerase

PBS phosphate buffered saline

PBST buffer PBS containing 0.5% (v/v) Tween-20

PGE₂ prostaglandin E₂

PI3-K phosphatidylinositol 3'-kinase

PMSF phenylmethanesulfonylfluoride

RIPA buffer radioimmunoprecipitation assay buffer

RNI reactive nitrogen intermediates

rpm revolutions per minute

S.D. standard deviation

SDS sodium dodecyl sulfate

SDS-PAGE sodium dodecyl sulfate polyacrylamide gel

electrophoresis

STAT3 signal transducer and activator of transcription 3

TAK1 transforming growth factor-β-activated kinase 1

TBK-1 TANK-binding protein

TEMED tetramethylethylenediamine

TLR4 toll-like receptor 4

TNF-α tumor necrotic factor-alpha

TNFR tumor necrosis factor receptor

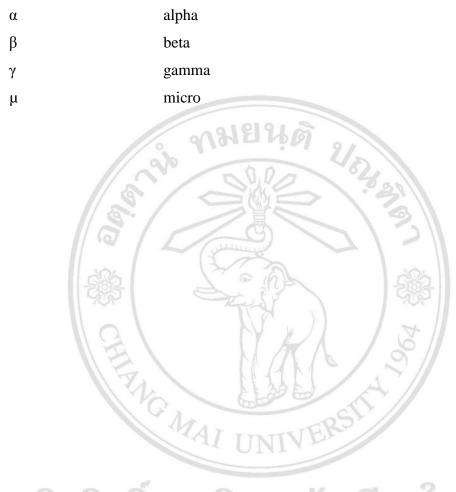
TRAF6 TNF receptor-associated factor 6

TRIF TIR domain-containing adaptor inducing interferon-β

TRAM TRIF-related adaptor molecules

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LIST OF SYMBOLS



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