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**ABBREVIATIONS**

bp Base Pair

BSA Bovine Serum Albumin

CaCl<sub>2</sub> Calcium chloride

cbEGF Calcium-binding Epidermal Growth Factor

CO<sub>2</sub> Carbon dioxide

CRP Complement Regulatory Protein

CS Chondroitin Sulfate

CsCl Cesium chloride

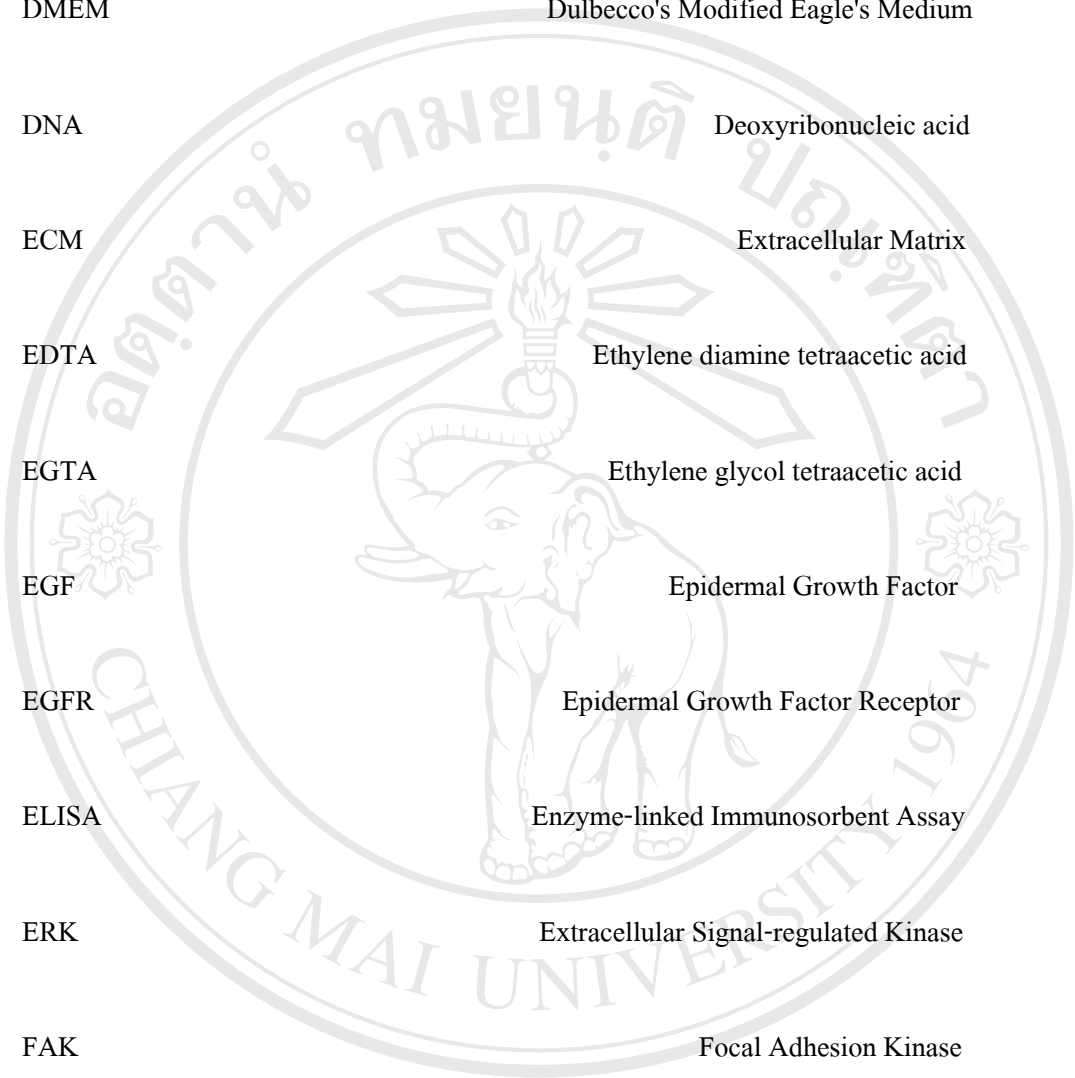
C-4S Chondroitin 4-sulfate

C-6S Chondroitin 6-sulfate

Da Dalton

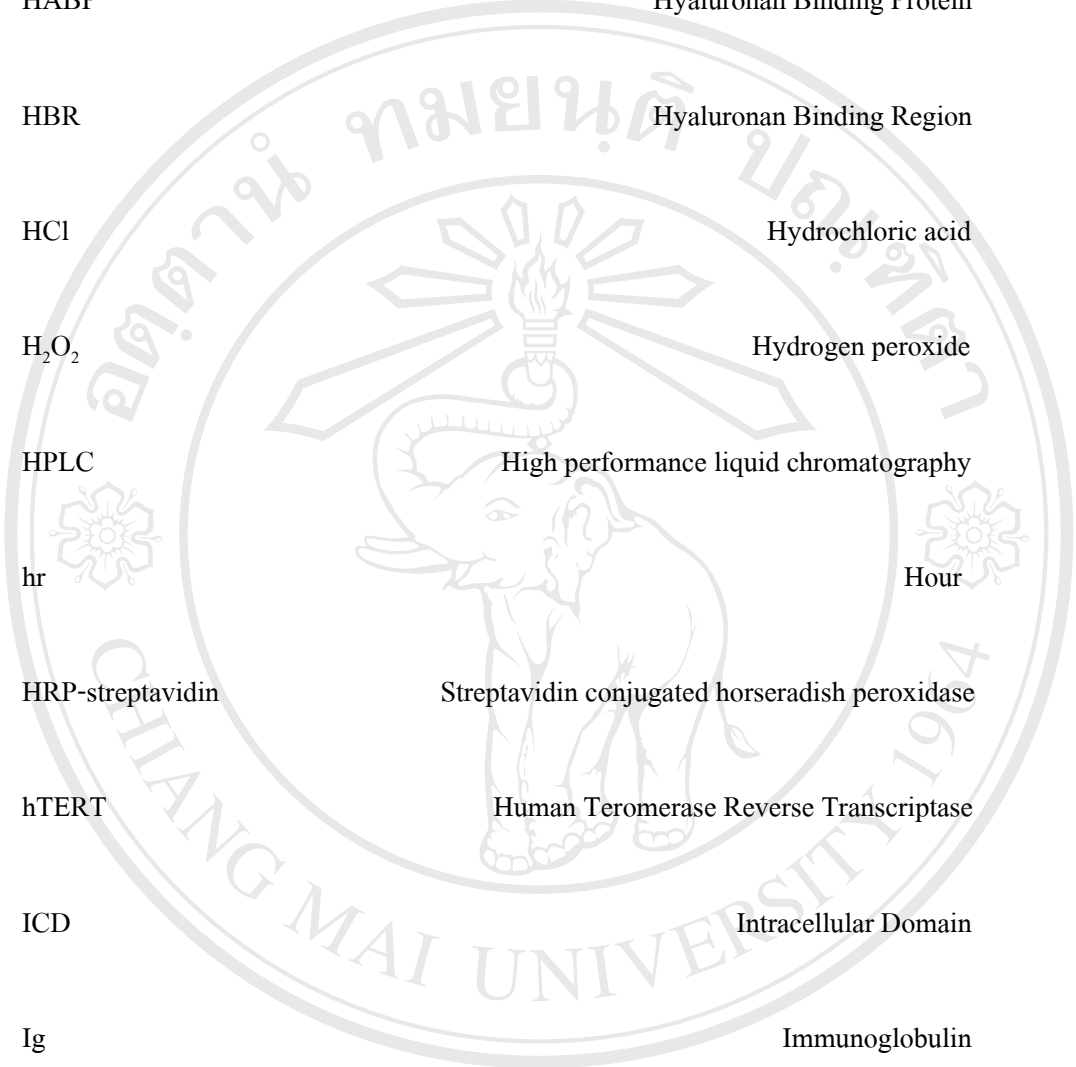
DAB Diaminobenzidine

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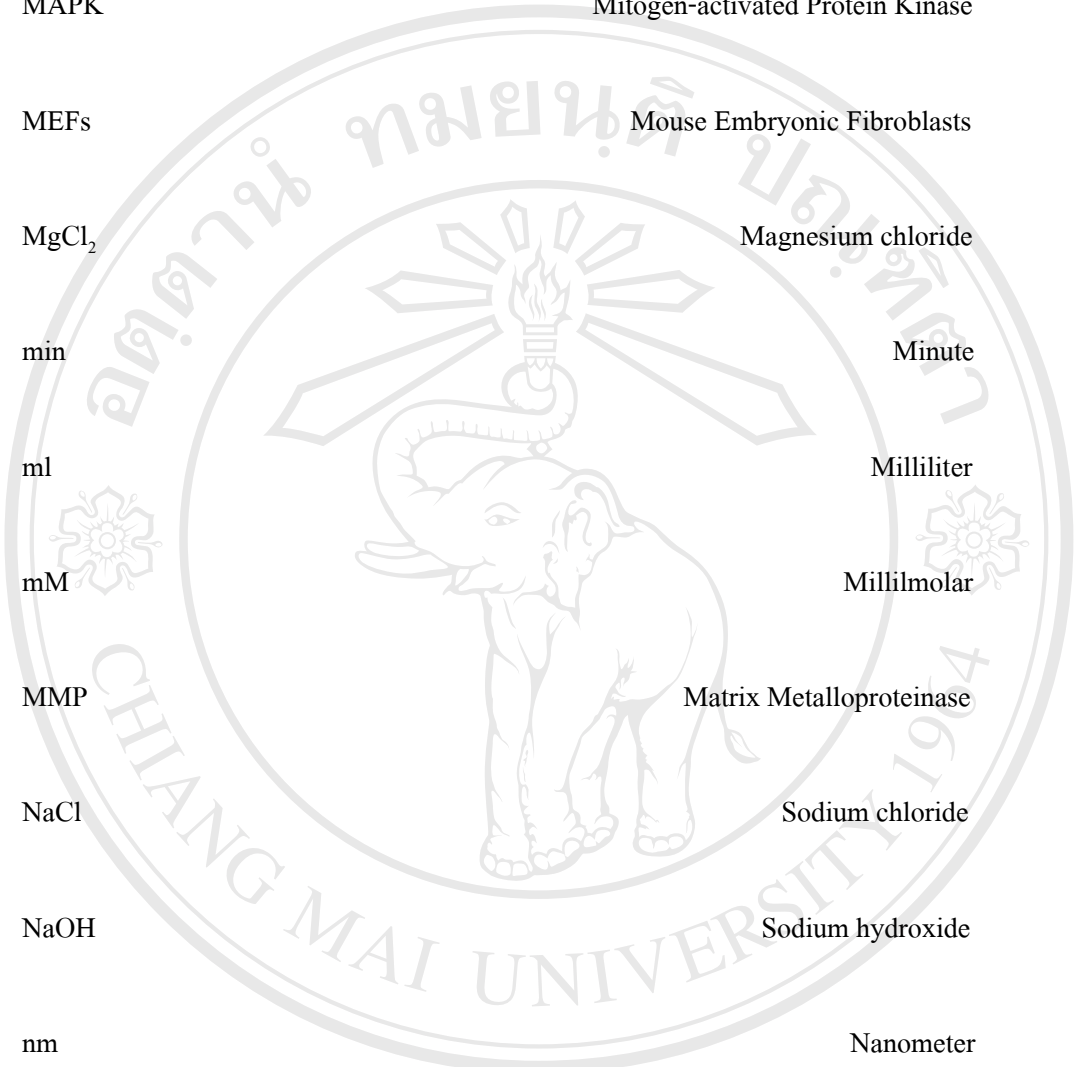
DMEM	Dulbecco's Modified Eagle's Medium
DNA	Deoxyribonucleic acid
ECM	Extracellular Matrix
EDTA	Ethylene diamine tetraacetic acid
EGTA	Ethylene glycol tetraacetic acid
EGF	Epidermal Growth Factor
EGFR	Epidermal Growth Factor Receptor
ELISA	Enzyme-linked Immunosorbent Assay
ERK	Extracellular Signal-regulated Kinase
FAK	Focal Adhesion Kinase
FCS	Fetal Calf Serum
GAG	Glycosaminoglycan
HA	Hyaluronan
HAS	Hyaluronan Synthase

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HABP	Hyaluronan Binding Protein
HBR	Hyaluronan Binding Region
HCl	Hydrochloric acid
H <sub>2</sub> O <sub>2</sub>	Hydrogen peroxide
HPLC	High performance liquid chromatography
hr	Hour
HRP-streptavidin	Streptavidin conjugated horseradish peroxidase
hTERT	Human Teromerase Reverse Transcriptase
ICD	Intracellular Domain
Ig	Immunoglobulin
ICI	Inter- $\alpha$ -inhibitor
LDL	Low Density Lipoproteins
LPL	Lipoprotein Lipase
M	Molar

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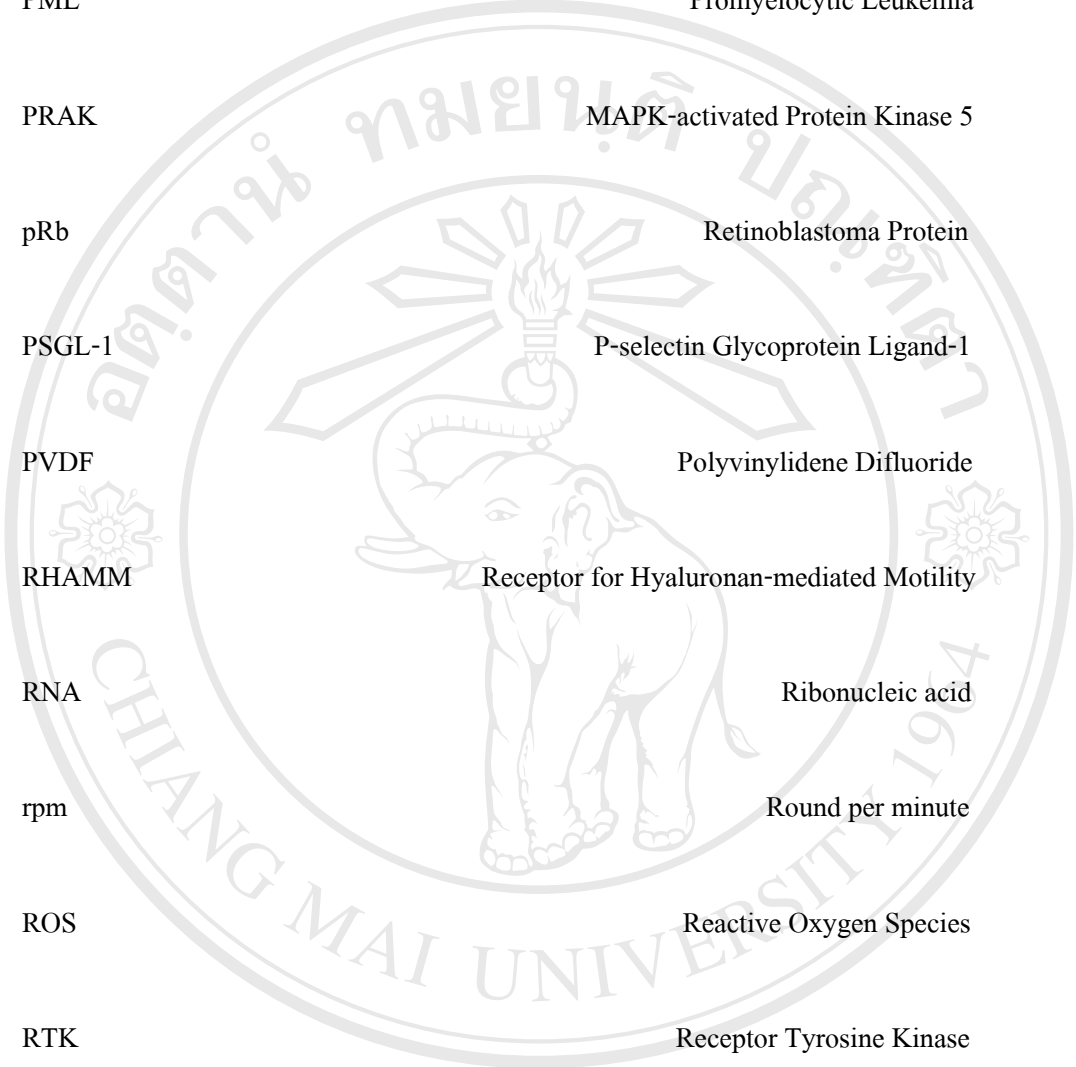
MAPK	Mitogen-activated Protein Kinase
MEFs	Mouse Embryonic Fibroblasts
MgCl <sub>2</sub>	Magnesium chloride
min	Minute
ml	Milliliter
mM	Millimolar
MMP	Matrix Metalloproteinase
NaCl	Sodium chloride
NaOH	Sodium hydroxide
nm	Nanometer

PBS Phosphate Buffer Saline

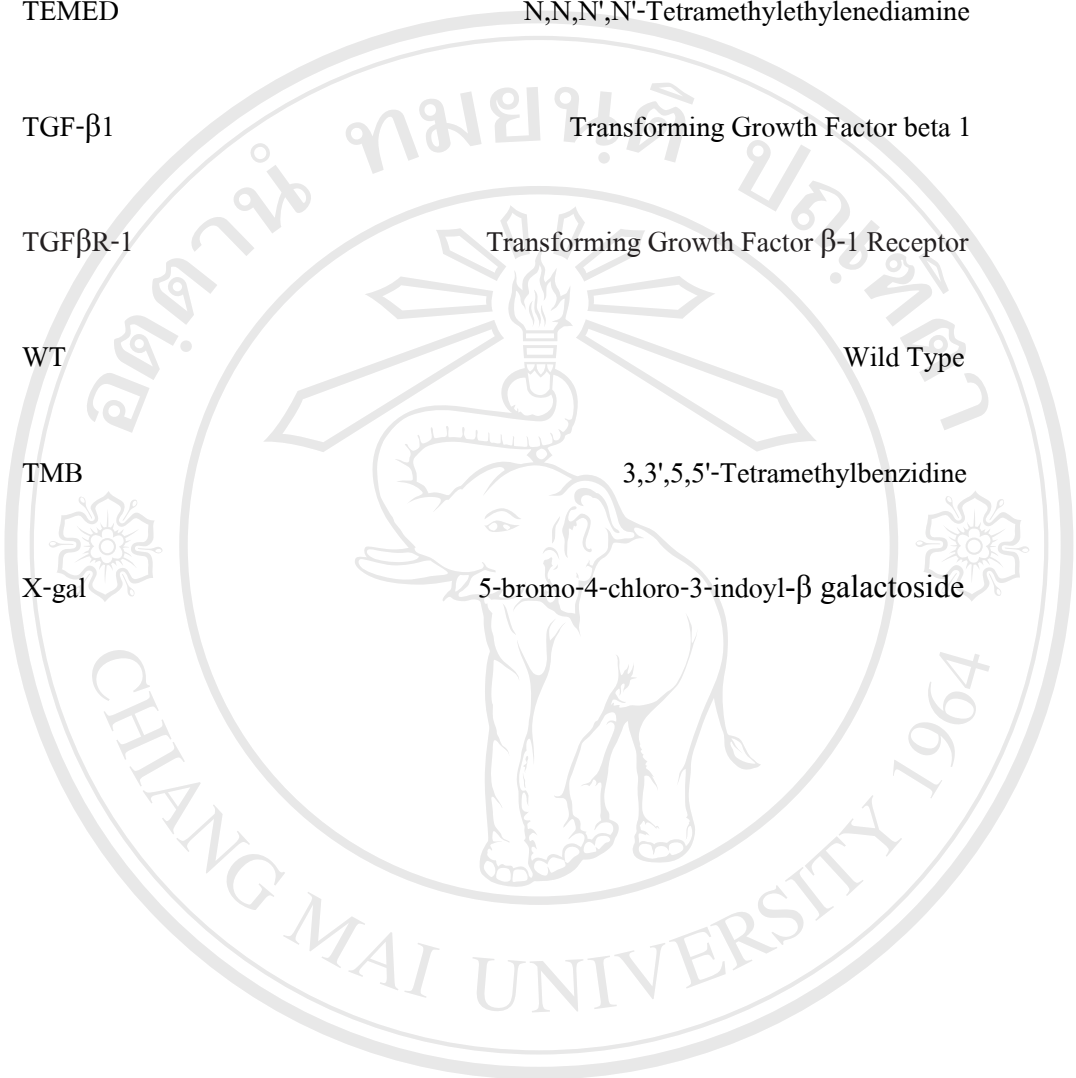
PD Population Doubling

PDGF Platelet-derived Growth Factor

PI3K Phosphatidylinositol 3-kinase



PML	Promyelocytic Leukemia
PRAK	MAPK-activated Protein Kinase 5
pRb	Retinoblastoma Protein
PSGL-1	P-selectin Glycoprotein Ligand-1
PVDF	Polyvinylidene Difluoride
RHAMM	Receptor for Hyaluronan-mediated Motility
RNA	Ribonucleic acid
rpm	Round per minute
ROS	Reactive Oxygen Species
RTK	Receptor Tyrosine Kinase
RT-PCR	Real-time reverse transcription-polymerase chain reaction
SDS	Sodium Dodecyl Sulfate-Polyacrylamide Gel Electrophoresis
SHAP	Serum-derived HA Associated Protein
SLC	Secondary Lymphoid Tissue Chemokine



TEMED	N,N,N',N'-Tetramethylethylenediamine
TGF- $\beta$ 1	Transforming Growth Factor beta 1
TGF $\beta$ R-1	Transforming Growth Factor $\beta$ -1 Receptor
WT	Wild Type
TMB	3,3',5,5'-Tetramethylbenzidine
X-gal	5-bromo-4-chloro-3-indoyl- $\beta$ galactoside

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