

ABBREVIATIONS

ABL	Abelson Murine Leukemia
Ac	Acetone
AD	Activation domain
ADAM	<u>a</u> <u>d</u> isintegrin and <u>m</u> etalloprotease
ADD3	Adducin 3
AEP	Asparaginyl Endopeptidase
AF4	ALL1 fused gene on chromosome 4
AKT/PKB	Protein Kinase B
ALL	Acute Lymphoblastic Leukemia
AML	Acute Myeloid Leukemia
AML1/ RUNX1	Acute Myeloid Leukemia 1 / Runt-Related Transcription Factor 1
ANG1	Angiopoietin 1
APC	Adenomatous polyposis coli
APL	Acute promyelocytic leukemia
ASB-14-4	Amidosulfobetaine-14-4
ASNS	Asparagine synthetase
ATR	Ataxia telangiectasia and Rad3 related
ATRX	Alpha thalassemia/mental retardation syndrome X-linked
B-ALL	B cell Acute Lymphoblastic Leukemia
BBB	Blood brain barrier
BCL7A	B-cell CLL/lymphoma 7A
BCR	Breakpoint cluster region
BD	Binding domain
BGA	Beta-galactosidase
BIRC5	Baculoviral IAP repeat containing 5

BM	Bone marrow
BRAF	B-Raf Proto-Oncogene
BTG1	B-cell translocation gene 1
β2m	Beta 2 microglobulin
C/EBPα	CCAAT/enhancer binding protein (C/EBP), alpha
CNA	Copy number abnormalities
CAPZA1	Capping protein (actin filament) muscle Z-line, alpha 1
CAPZB	Capping protein (actin filament) muscle Z-line, beta
CASP8AP2	Caspase 8 associated protein 2
CBP	cyclic AMP response element-binding protein
CCNB1	Cyclin B1
CD	Cluster of differentiation
CDH	Cadherin Family Member
CDHR8/ FAT1	Cadherin-Related Family Member 8/ FAT Atypical Cadherin 1
CDKN2A/B	Cyclin-Dependent Kinase Inhibitor 2 A/B
CF	Chromate focusing
CHAPS	3-[(3-Cholamidopropyl) dimethylammonio]-1- propanesulfonate
CIP29	Cytokine inducible protein
c-Kit	Proto-oncogene c-Kit or tyrosine-protein kinase Kit
CKIα	Casein kinase Iα
CLL	Chronic Lymphoid Leukemia
CLP	Common Lymphoid Progenitor
CML	Chronic Myeloid Leukemia
CMP	Common Myeloid Progenitor
c-Myc	v-myc avian myelocytomatosis viral oncogene homolog
CNS	Central Nervous System
Co-IP	Co-immunoprecipitation

CROP	Cisplatin resistance-associated overexpressed protein
CSF	Cerebrospinal fluid
Da	Daltons
DAAM1	Dishevelled associated activator of morphogenesis 1
DARC	Duffy antigen receptor for chemokines
DKK	Dickkopf WNT signaling pathway inhibitor
DMSO	Dimethyl sulfoxide
DNA	Deoxyribonucleic acid
DNCI2	Dynein, Cytoplasmic 1, Intermediate Chain 2
Dsh	Dishevelled
DTT	Dithiothreitol
<i>E.coli</i>	<i>Escherichia coli</i>
EAE	Experimental autoimmune encephalomyelitis
EBF	Early B cell Factor
ECH1	Enoyl coA hydratase
ECM	Extracellular matrix
ELISA	Enzyme-linked immunosorbent assay
EPO	Erythropoietin
ER	Endoplasmic reticulum
ERG	ETS-related gene
ERK	Extracellular signal-regulated kinase
ESCC	Esophageal squamous cell carcinoma
ESI-Q-TOF	Electrospray ionization quadrupole time-of-flight mass spectrometry
Ets-1	E26 transformation-specific-1
FAO	Fatty acid oxidation
FBS	Fetal bovine serum
FBXO11	F-box protein 11

FCI	Flow cytometric immunophenotyping
FDA	Food and Drug Administration
FLT3	Fms-related tyrosine kinase 3
Fzd	Frizzled
FZD10	Frizzled family receptor 10
GAB	GRB2-associated binding protein
GAPDH	Glyceraldehyde 3-phosphate dehydrogenase
GATA	GATA binding protein/globin transcription factor
G-CSF	Granulocyte Colony-Stimulating Factor
Gli	Glioblastoma
GM-CSF	Granulocyte Macrophage Colony-Stimulating Factor
GSK-3 β	Glycogen synthase kinase 3 β
HBFP	Human Body Fluid Proteomics
HBMEnd	Human brain-derived microvascular endothelial cells
HCl	Hydrochloric acid
HEB	Transcription Factor 12
HER-2	Human epidermal growth factor receptor 2
Hh	Hedgehog
HIST1H2AC	Histone cluster 1, H2ac
HIST1H2BD	Histone cluster 1, H2bd
HOX	Homeobox 1
HRP	Horseradish peroxidase
HSC	Hematopoietic Stem Cell
ICAM 1	Intercellular Adhesion Molecule 1
ICAT	Isotope-coded affinity tags
IEF	Isoelectric focusing
IFN- γ	Interferon gamma

IGH	Immunoglobulin heavy chain
IKZF1	IKAROS family zinc finger 1 (Ikaros)
IL	Interleukin
IP-10	Interferon gamma-induced protein 10
IPG	Immobilized pH gradient
IPTG	Isopropyl β -D-1-thiogalactopyranoside
IQ	Intelligence quotient
IQGAP1	IQ motif containing GTPase activating protein 1
IT	Intrathecal
ITGB1	Integrin beta 1
ITPR3	Inositol 1, 4, 5-trisphosphate receptor, type 3
iTRAQ	Isobaric tags for relative and absolute quantification
JAK	Janus kinase
KANK	KN motif and ankyrin repeat domains
KCNK12	Potassium channel, subfamily K, member 12
kDa	Kilo Daltons
KRAS	Kirsten rat sarcoma viral oncogene homolog
LEF	Lymphocyte enhancer binding factor
LFA-1	Lymphocyte function-associated-1
LGALS8	Lectin, galactoside-binding, soluble, 8
LMO-2	LIM domain only 2
LRP	Lipoprotein receptor related proteins
LSP1	Lymphocyte-specific protein 1
LT-HSC	Long Term Hematopoietic Stem Cell
Mac	Methanol + 100mM ammonium acetate
MAPK	Mitogen-activated protein kinase
MCL	Mantle cell lymphoma

MCP-1	Monocyte chemoattractant protein
MDR	Multi-protein destruction complex
MDR-1	Multidrug resistance protein 1
MEIS1	Meis homeobox 1
MEK/ MAP2K1	Mitogen-activated protein kinase kinase 1
MEP	Megakaryocyte/erythroid progenitor
mg	milligram
MHC	Major Histocompatibility Complex
MIP-1	Macrophage Inflammatory Proteins 1
MLL (ALL1)	Mixed lineage leukemia
MM	Multiple myeloma
mM	Millimolar
µg	Microgram
µL	Microliter
MMP	Matrix metalloproteinase
MPL	Myeloproliferative leukemia virus oncogene
MPP	Multi-potential progenitor
Mr	Relative molecular mass
MRD	Minimum residual disease
MS	Multiple sclerosis
MSH6	MutS homolog 6
mTOR	Mammalian target of rapamycin
MVP	Major Vault protein
MYB	v-myb avian myeloblastosis viral oncogene homolog
Myc	Myelocytomatosis
NaCl	Sodium chloride
NAD(P)H	Nicotinamide adenine dinucleotide phosphate

ng/ml	nanogram per millilitre
NHL	Non-Hodgkin Lymphoma
NICD	Notch intracellular domain
NID2	Nidogen 2
NIH	National Institutes of Health
NK cell	Natural killer cell
NOS	Nitric oxide synthase
NPRPC	Nonporous reverse phase column chromatography
NRAS	Neuroblastoma RAS Viral Oncogene Homolog
NUP214	Nucleoporin 214kDa
OPN	Osteopontin
1DE	One dimensional electrophoresis
PAX5	Paired box 5
PBX1	Pre-B-cell leukemia transcription factor 1
PCI	Phenol: Chloroform: Isoamyl alcohol
PCM1	Pericentriolar Material 1
PCP	Planar cell polarity
PCR	Polymerase chain reaction
PDGF	Platelet-derived growth factor
PDIA3	Protein disulfide-isomerase A3
PECAM-1	Platelet endothelial cell adhesion molecule 1
PFDN5	Prefoldin subunit 5
pH	Potenz Hydrogen
PHKB	Phosphorylase kinase, beta
pI	Isoelectric point
PI3K	Phosphoinositide 3-kinase

PIK3C2B	Phosphatidylinositol-4-phosphate 3-kinase, catalytic subunit type 2 beta
PIP5K2B	Phosphatidylinositol-5-phosphate 4-kinase, type II, beta
PPP2CB	Protein phosphatase 2, catalytic subunit, beta isozyme
PRDX4	Peroxiredoxin 4
PRDX6	Peroxiredoxin-6
PRKCB1	Protein kinase C, beta
PTCH1	Patched homolog 1
PTEN	Phosphatase and tensin homolog
PTPRO	Protein tyrosine phosphatase, receptor type, O
PVDF	Polyvinylidene difluoride
RAC2	Ras-related C3 botulinum toxin substrate 2
RAF	Rapidly Accelerated Fibrosarcoma
RAG1/2	Recombination activating gene 1/2
RANTES	Regulated on Activation, Normal T Cell Expressed and Secreted
RAS	Rat sarcoma
RBC	Red blood cell
Rho C	Ras homolog gene family, member C
RNA	Ribonucleic acid
RPLP0	60S acidic ribosomal protein P0
Rpm	Revolutions per minute
sCD27	Soluble CD 27
SCF	Stem Cell Factor
SCGF	C-type lectin domain family 11, member A
SCL	Stem Cell Leukemia
SDFR1	Stromal Cell Derived Factor Receptor 1
SDS	Sodium dodecyl sulphate

SDS-PAGE	Sodium dodecyl sulfate polyacrylamide gel electrophoresis
sFRP	Secreted frizzled-related protein
sIL-2R	Soluble interleukin 2 receptor
SILAC	Stable isotope labelling with amino acids in cell culture
SMO	Smoothened
SOX	SRY (Sex Determining Region Y)-Box
STAT	Signal Transducer and Activator of Transcription
TAL	T-cell acute lymphocytic leukemia
T-ALL	T cell Acute Lymphoblastic Leukemia
TBS	Tris buffered saline
TBST	Tris Buffered saline + 0.2% Tween 20
TCF	T cell factor
TCF3/E2A	Transcription Factor 3
TCR	T-cell receptor
TEL (ETV6)	Translocation ets leukemia (ETS variant gene 6)
TEMED	Tetramethylethylenediamine
TF	Transcription factor
TGF β	Transforming growth factor beta
THPO	Thrombopoietin
TIMP-2	Tissue inhibitor of matrix metalloproteinase 2
TLN1	Talin 1
TMB	3,3',5,5'-Tetramethylbenzidine
TNF α	Tumor necrosis factor
TOP2A	Topoisomerase II alpha
TP73	Tumor protein p73
2-DE	Two dimensional electrophoresis
2D GE	Two dimensional gel electrophoresis

2D-DIGE	Two-dimensional difference gel electrophoresis
2D-PAGE	Two dimensional polyacrylamide gel electrophoresis
uPAR	urokinase-type plasminogen activator receptor
VCAM 1	Vascular cell adhesion protein 1
VEGF	Vascular Endothelial Growth Factor
VLA-4	Very late antigen-4
WB	Western blotting
WIF1	WNT inhibitory factor 1
Wnt	Int/Wingless
WT1	Wilms tumor 1
Y2H	Yeast two hybrid