

ABBREVIATIONS

1D	one-dimensional
2D	two-dimensional
AA	alopecia areata
ACN	acetonitrile
AEC substrate	3-amino-9-ethylcarbazole substrate
AGA	androgenetic alopecia
<i>Aire</i> gene	autoimmune regulator gene
α -MSH	α -melanocyte-stimulating hormone
APCs	antigen presenting cells
APPs	acute-phase proteins
APS	acute-phase response
APS1	autoimmune polyendocrine syndrome 1
AT	alopecia totalis
AU	alopecia universalis
BCR	B cell receptors
CD	clusters of differentiation
CL	companion layer
CTS	connective tissue sheath
DAF	decay-accelerating factor
DEBR	Dundee experimental bald rat
DMP	dimethyl pimelidate dihydrochloride
DNCB	dinitrochlorobenzene
DPCP	diphenylcyclopropenone
ECL	enhanced chemiluminescence
FP	follicular papilla
GPC	guinea pig serum complement
HCCA	α -cyano-4-hydroxycinnamic acid

HF	hair follicle
HLA	human leukocyte antigens
HRP	horseradish peroxidase
IEF	isoelectric focusing
IFN	interferon
Ig	immunoglobulin
IGF-I	insulin-like growth factor-I
IL	interleukin
IPG	immobilized pH gradient
IRS	inner root sheath
LC	liquid chromatography
LPS	lipopolysaccharide
MAC	membrane attack complex
MALDI	matrix-assisted laser desorption/ionization
MASP	MBL-Associated Serine Protease 1
MBL	Mannan-binding lectin
MCP	membrane cofactor protein
MHC	major histocompatibility complex
MS	mass spectrometry
Mwt	molecular weight
NK cells	natural killer cells
NKT cells	natural killer T cells
OCT compound	Optimal Cutting Temperature compound
ORS	outer root sheath
PAMPs	pathogen-associated molecule patterns
PBS	phosphate buffered saline
pI	isoelectric point
PMF	peptide-mass fingerprints

<i>PTPN22</i> gene	protein tyrosine phosphatase nonreceptor 22 gene
PVDF	polyvinylidene difluoride
RID	radial immunodiffusion
RIPA	radioimmunoprecipitation assay
SADBE	squaric acid dibutylester
SCID	severe combined immunodeficient
SDS	sodium dodecyl sulfate
SDS-PAGE	sodium dodecyl sulfate-polyacrylamide gel electrophoresis
SEM	standard error of mean
TBS	tris-buffered saline
TCR	T cell receptor
TFA	trifluoroacetic acid
TGF- β 1	transforming growth factor- β 1
THH	trichohyalin
TNF	tumour necrosis factor
TOF	time-of-flight
TSA	tris saline azide
UV	ultraviolet