

Adhesion Molecules: Role In Cutaneous Immunity And As a Therapeutic Target

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قَالُوا سُبْحَانَكَ لَا عِلْمَ لَنَا
إِلَّا مَا عَلَّمْتَنَا إِنَّكَ أَنْتَ الْعَلِيمُ الْحَكِيمُ
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List of abbreviations

ACD.....	Allergic Contact Dermatitis
AD.....	Atopic Dermatitis
ADAM.....	A Disintegrin And Metalloprotease
ADAM17.....	A Disintegrin And Metalloproteinase 17
ADMIDAS	A Region Adjacent To MIDAS
aGVHD.....	Acute Graft Vs Host Disease
ALCAM.....	Activated Leukocyte Cell Adhesion Molecule
AMOG.....	Adhesion Molecule On Glia
APC.....	Antigen-Presenting Cell
APCs	Antigen-Presenting Cells
APG	Klebsiella Pneumoniae
	Acylpolygalactoside
bFGF.....	Basic Fibroblast Growth Factor
BL-CAM.....	B-Lymphocyte Cell Adhesion Molecule
BMZ	Bone Marrow Zone
BP.....	Bullous Pemphigoid
BPAG2.....	Plectin Bullous Antigen2
BSP.....	Bone Sialic Protein
CaM.....	Calmodulin
CAMs.....	Cell-Surface Adhesion Molecules
CAR.....	Coxsackie Virus And Adenovirus Receptor
CCL3.....	Chemokine Ligand3
CCN3.....	An Extracellular Matrix Protein
CCR7.....	Chemokine Receptor 7
CD.....	Cluster Of Differentiation

CD.....	Contact Dermatitis
CEA.....	Carcinoembryonic Antigen
cGVHD.....	Chronic Graft Vs Host Disease
cICAM-1.....	Soluble Intercellular Adhesion Molecule-1
CLA-1.....	Cutaneous Lymphocyte Antigen-1
CLCA2.....	Ca ²⁺ Sensitive Chloride Channel
CNTN1.....	Contactin-1
COLL.....	Collagen
COMP.....	Cartilage Oligomeric Matrix Protein
CR-3.....	Complement Receptor-3
CRGDK.....	Cysteine-Arginine-Glycine-Aspartic Acid-Lysine
CRP.....	Complement Regulatory Proteins
CS-1.....	Connecting-Segment-1
CTL.....	Cytotoxic T-Lymphocyte
CXCL10.....	C-X-C Motif Chemokine 10
Cyr61.....	Cysteine-Rich Protein 61
DCs.....	Dendritic Cells
DC-SIGN.....	DC-Specific ICAM-Grabbing Non-Integrin
DEJ.....	Dermo-Epidermal Junction
DH.....	Dermatitis Herpetiformis
DIF.....	Direct Immunofluorescence Test
DNAM-1.....	DNAX Accessory Molecule-1
DRG.....	Dorsal Root Ganglion
Dsc.....	Desmocollins
Dsg.....	Desmoglein
EAE.....	Experimental Autoimmune Encephalomyelitis

EAP.....	Endothelial Adhesive Platform
EC.....	Endothelial Cells
E-cadherin.....	Epithelial- Cadherin
ECM.....	Extracellular Matrix
EGF.....	Epidermal Growth Factor
ELC.....	EBI1-Ligand Chemokine
ELISA.....	Enzyme-Linked Immunosorbent Assay
ErbB2(HER2)	Human Epidermal Growth Factor Receptor 2
ERM.....	Ezrin, Radixin, Moesin
ESAM.....	Endothelial Cell-Selective Adhesion Molecule
E-selectin.....	Endothelial-Selectin
ESL1.....	E-Selectin Ligand-1
eTG.....	Epidermal Transglutaminase
FAK.....	Focal Adhesion Kinase
FAs.....	Focal Adhesions
FGF-2.....	Fibroblast Growth Factor-2
FMLP.....	N-Formyl-Methionine-Leucine- Phenylalanine
FN.....	Fibronectin
Foxp3+.....	Forkhead Box Protein P3
FRET.....	Fluorescence Resonance Energy Transfer
GFFKR.....	Glycine-Phenylalanine-Phenylalanine- Lysine-Arginine
GlyCAM.....	Glycosylation Dependent Cell Adhesion Molecule-1
GM-CSF.....	Granulocyte-Macrophage Colony- Stimulating Factor

GPCRs.....	G-Protein Coupled Receptors
GPI.....	Glycosylphosphatidylinositol
GP1c.....	Platelet Glycoprotein 1c
GVHD.....	Graft Vs Host Disease
GVT.....	Graft Vs Tumor Effect
HAS.....	Heat-Stable Antigen
HCV.....	Hepatitis C Virus
HER2.....	Human Epidermal Growth Factor Receptor 2
HEV.....	High Endothelial Venules
HLA-DR.....	Human Leukocyte Antigens-DR
HSCT.....	Hematopoietic Stem Cell Transplantation
HT.....	Hydroxytyrosol
HTSMCs.....	Human Tracheal Smooth Muscle Cells
HUVECs.....	Human Umbilical Vein Endothelial Cells
iC3b.....	Inactivated Complement Component 3
ICAM.....	Intercellular Adhesion Molecule
ICD.....	Irritant Contact Dermatitis
IEL.....	Intraepithelial T-Lymphocytes
Ig.....	Immunoglobulin
IgCAMs.....	Immunoglobulin Cell Adhesion Molecules
IL.....	Interleukin
ILK.....	Integrin-Linked Kinase
INF.....	Interferon
IP-10.....	Interferon Gamma-Induced Protein 10
ITIMs.....	Immunoreceptor Tyrosine Inhibitory Motifs
JAM.....	Junctional Adhesion Molecule
L1.....	Cd171

L1CAM.....	L1 Related Cell Adhesion Molecule
LAD.....	Leukocyte Adhesion Deficiency
LAP-TGF- β	Latency-Associated Peptide- Transforming Growth Factor Beta
LBRC.....	Lateral Border Recycling Compartment
LC.....	Langerhans Cells
LCA.....	Leukocyte Common Antigen
LDV.....	Leu-Asp-Val
LDVP.....	Leu-Asp-Val-Pro
LER.....	Low Expression Region
LEU-CAM.....	Leukocyte-Cell Adhesion Molecule
LFA-1.....	Leukocyte Function Antigen-1
LIMBS.....	A Ligand-Induced Metal Binding Site
LM.....	Laminin
LPG.....	Leishmania Lipophosphoglycan
LPS.....	Lipopolysaccharide
L-selectin.....	Leukocyte-Selectin
mAb.....	Monoclonal Antibody
Mac-1.....	Macrophage Antigen-1
MAdCAM-1.....	Mucosal Vascular Addressin Cell Adhesion Molecule
MAG.....	Myelin-Associated Glycoprotein
MAPK.....	Mitogen-Activated Protein Kinase
MD.....	Muscular Dystrophy
MDG.....	MAM-Domain Containing Glycosylphosphatidylinositol Anchor 1
MFG-E8.....	Milk Fat Globule-EGF Factor 8 Protein
MHC.....	Major Histocompatibility Complexes
MIDAS.....	Metal-Ion-Dependent Adhesion Site

MIP1 β	Macrophage Inflammatory Protein-1 β
MLN.....	Mesenteric Lymph Node
MMP.....	Matrix Metalloproteinase
MOG.....	Myelin-Oligodendrocyte Glycoprotein
N- cadherin.....	Neural- Cadherin
NALT.....	Nasal-Associated Lymphoid Tissue
NCAM.....	Neural Cell Adhesion Molecule
NCD1.....	Neutralizing Antibody Conserved Domain 1
NE.....	Neutrophil Elastase
Nect1.....	Nectin Like Molecule
NF-KB.....	Nuclear Factor Kappa B
NgCAM.....	Neuron Glia Cell Adhesion Molecule
NK.....	Natural Killer
NMJ.....	Neuromuscular Junction
NMR.....	Nuclear Magnetic Resonance
NOD.....	Non-Obese Diabetic
NPxY/F.....	Asparagine- Proline-Any Amino Acid- Tyrosine
NrCAM.....	Neuronal Cell Adhesion Molecule
OBCAM.....	Opioid Binding Cell Adhesion Molecule
P- cadherin.....	Placental- Cadherin
PECAM-1.....	Platelet And Endothelial Cell Adhesion Molecule- 1
PET.....	Positron Emission Tomography
PF.....	Pemphigus Foliaceus
PINCH.....	Cys- His- Rich Protein
PIPKI.....	Phosphatidylinositol Phosphatekinase Type- I

PKA.....	Protein Kinase
PKC α	Protein Kinase C α
PLN.....	Peripheral Lymph Node
PML.....	Progressive Multifocal Leukoencephalopathy
PMP-22.....	Peripheral Myelin Protein-22
PNAD.....	Peripheral Node Addressin
PNS.....	Peripheral Nervous System
PP.....	Peyer's Patches
PRR-2.....	Nectin-2
PSA.....	Prostatic Specific Antigen
P-selectin.....	Platelet- Selectin
PSGL1.....	P-Selectin Glycoprotein Ligand-1
PSI.....	Plexin-Semaphorin-Integrin
PTB.....	Phosphotyrosine-Binding
PtdIns-4,5.....	Phosphatidylinositol -4,5
PtdIns-4,5-P2.....	Phosphatidylinositol-4,5 Bisphosphate-2
PV.....	Pemphigus Vulgaris
PVR.....	Polio Virus Receptor
R- cadherin.....	Retinal-Cadherins
RANTES.....	Regulated And Normal T Cell Expressed And Secreted
RGD.....	Arginine-Glycine-Aspartic Acid
RHO.....	RAS Homologue
RSV.....	Respiratory Syncytial Virus
SCORAD.....	Severity Score Atopic Dermatitis
SCR.....	Short Consensus Repeat
sE-CAD.....	Soluble E-Cadherin
sE-selectin.....	Soluble E-Selectin

sICAM-1.....	Soluble ICAM-1
sLea.....	Sialylated Lewis-A Antigen
sLex.....	Sialylated Lewis-X Antigen
sL-selectin.....	Soluble L-Selectin
SMACs.....	Supramolecular Activation Clusters
sN-CAD.....	Soluble N-Cadshein
TCR.....	T Cell Receptors
TEM.....	Transendothelial Migration
TGF β	Transforming Growth Factor B
TH.....	T Helper
TM.....	Transmembrane
TNF.....	Tumor Necrosis Factor
TRP2.....	Tyrosinase-Related Protein 2
tTG.....	Tissue Transglutaminase
uPA.....	Urokinase
uPAR.....	Urokinase Receptor
VCAM.....	Vascular Cell Adhesion Molecule
VE.....	Vascular Endothelium
VE-cadherin.....	Vascular Endothelial Cadherin
VEGF.....	Vascular Endothelial Growth Factor
VEGFR.....	Vascular Endothelial Growth Factor Receptor
VLA.....	Very Late Activation Antigen
VPF.....	Vascular Permeability Factor
V-SRC.....	Viral Sarcoma
VVOs.....	Vesiculo-Vacuolar Organelles
vWF.....	Von Willebrand Factor
WM.....	White Matter