

Supplementary materials

Key resources of this study

Category	Source	Identifier
Antibodies and ELISA kits		
PE Mouse IgG1, κ Isotype Ctrl Antibody	Biolegend	400112
PE anti-human CD138 (Syndecan-1) Antibody	Biolegend	352306
PE anti-human CD38	Biolegend	356603
PE anti-human CD269 (BCMA) Antibody	Biolegend	357504
PE anti-human CD319 (CRACC/SLAMF7) Antibody	Biolegend	331806
PerCP anti-human CD3 Antibody	Biolegend	300428
APC anti-human IFN γ	Biolegend	502512
FITC anti-human TNF- α	Biolegend	502906
RAR α Rabbit mAb	Abclonal	A19551
RAR β Rabbit mAb	Abclonal	A4535
CD38 Rabbit pAb	Abclonal	A13611
WHSC1/NSD2 Rabbit pAb	Abclonal	A7938
Anti-WHSC1/NSD2 antibody [29D1] - ChIP Grade	abcam	ab75359
Anti-Histone H3 (di methyl K36) antibody - ChIP Grade	abcam	ab9049
HA-Tag (C29F4) Rabbit mAb	Cell Signaling Technology	3724S
RAR α (E6Z6K) Rabbit mAb	Cell Signaling Technology	62294S
Anti-mouse GAPDH	UTIBODY	UM4002
ANTI-FLAG ® M2-Peroxidase	Sigma-Aldrich	A8592
Goat Anti-Rabbit IgG-HRP	Sigma-Aldrich	A0545
Rabbit Anti Mouse IgG-HRP	Sigma-Aldrich	A9044-2ML
Anti-rabbit IgG	Proteintech	30000-0

Anti-mouse IgG	Proteintech	B900620
ELISA MAX™ Deluxe Set Human IFN- γ	Biolegend	430104
ELISA MAX™ Deluxe Set Human TNF- α	Biolegend	430204
Chemicals, Reagent and Drugs		
FLAG Peptide	Sigma-Aldrich	F3290
Puromycin 2HCL	SelleckChem	S7417
Cycloheximide	Sigma-Aldrich	C7698
Polyethyleneimine (PEI)	Polysciences	23966-1
Poly (ethylene glycol) 8000 (PEG8000)	Sigma-Aldrich	25322-68-3
Polybrene	Sigma-Aldrich	107689
Pierce™ Protein A/G Magnetic Beads	Thermo Fisher Scientific	88802
Pierce™ Glutathione Agarose	Thermo Fisher Scientific	16100
Pierce™ HRV 3C Protease	Thermo Fisher Scientific	88946
ChIP-grade Protein A/G Magnetic Beads	Thermo Fisher Scientific	26162
2-Methyl-2-butanol	Sigma-Aldrich	240486
2,2,2-Tribromoethanol	Sigma-Aldrich	T48402
CellTrace™ Far Red	Thermo Fisher Scientific	C34564
Luciferase assay Kit	Promega	E1910
Phosphatase Inhibitor Cocktail(100 \times)	Cell Signaling	5870S
Ficoll-Paque PLUS endotoxin tested	GE Healthcare	17-1440-02
Human CD138 MicroBeads	Miltenyi Biotec	130-105-961
NuPAGE 4-12% Bis-Tris Gel	Invitrogen	NP0335BOX
All-trans-retinoic acid (ATRA)	Sigma-Aldrich	R2625
Enzymes		
RNase A, DNase and protease-free	Thermo Fisher	EN0531
Proteinase K Solution, ChIP grade	Thermo Fisher	26160

EcoRI	NewEngland Biolabs	R0101S
KpnI-HF	NewEngland Biolabs	R3142S
HindIII	NewEngland Biolabs	R104S
AgeI-HF	NewEngland Biolabs	R3552S
CutSmart Buffer	NewEngland Biolabs	137204S
T4 DNA Ligase	NewEngland Biolabs	M0202S
10×Buffer for T4 DNA ligase	NewEngland Biolabs	B0202S
dNTP mix	ABI	362275
5×All-In-One RT MasterMix	abm	G592
EvaGreen 2X qPCR MasterMix	ABI	MasterMix-R
Primers sequence		
HumanGAPDH-F	TTGCCCTCAACGACCACTTT	
HumanGAPDH-R	TGGTCCAGGGGTCTTACTCC	
HumanCD38-F	AGACTGCCAAAGTGTATGGGA	
HumanCD38-R	GCAAGGTACGGTCTGAGTTCC	
HumanNSD2-F	ACCGCGAGTGTTCTGTGTTTC	
HumanNSD2-R	GTCGTGGCCGTAAACTTCTG	
HumanTNFRSF17-F	ACCTTGCAACTTCGATGTTCTT	
HumanTNFRSF17-R	CAGAGAATCGCATTCGTTCCCTT	
HumanSDC1-F	ACGGCTATTCCCACGTCTC	
HumanSDC1-R	TCTGGCAGGACTACAGCCTC	
HumanSLAMF7-F	TCAGGGATCTACTATGTGGGGA	
HumanSLAMF7-R	GGTGCCATTCTTATTGCTCTGC	
HumanRARA-F	GGGCAAATACACTACGAACAACA	
HumanRARA-R	CTCCACAGTCTTAATGATGCACT	

HumanRARB-F	TCCGAAAAGCTCACCAGGAAA
HumanRARB-R	GGCCAGTTCACTGAATTTGTCC
HumanRARG-F	GGTACCAAGTGCATCATCAA
HumanRARG-R	TGTGCAGATACGCAGCATCAG
HumanRXRA-F	ATGGACACCAAACATTTCTGC
HumanRXRA-R	GGGAGCTGATGACCGAGAAAAG
HumanRXRB-F	ACGGCTATGTGCAATCTGC
HumanRXRB-R	CGGATGGTGCGTTTGAAGAA
HumanRXRG-F	AGAGGACGATAAGGAAGGACC
HumanRXRG-R	CCATGACAAGGCACTTCTGAT
HumanCD38-1-F	CATTTTCAAAAATCTATCCATCTG
HumanCD38-1-R	TTTGCCCACTTTTAAATGGGGTT
HumanCD38-2-F	TAGCCAACAAACATATGAAAA
HumanCD38-2-R	TTAATGATCACCATTCTGACT
HumanCD38-3-F	TACAATTGGCCTCCTTGCTGCTCT
HumanCD38-3-R	GCAGAGACCTAAGTAATGTGAGC
HumanCD38-4-F	TACTGTCTGCCCCCTTAGGAC
HumanCD38-4-R	TCCGTGGCTGGTTACACCAAT
HumanCD38-5-F	AGATGCAGGGTGTGCTGACATT
HumanCD38-5-R	GCAAACCACTTAAGTGTCTCTG