

Supplementary Figure 1 Flow cytometry gating strategy



Supplementary Figure 2 Generation of PLZF Cre-ERT2/EGFP knock-in mice.

Supplementary Figure 3 PLZF deficiency does not affect the number of total ILCs.



Supplementary Figure 4 Expression of ILC3s activation maker and homing receptors.



Supplementary Figure 5 The *Zbtb16* gene expression is downregulated in ILC3s under disease conditions.



Supplementary Figure 6 IL-22 expression regulated by PLZF is not dependent on Rorc, AhR, and Stat3.



Supplementary Figure 7 PLZF specific binding motif



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Antibody	Clone	Vendor
CD16/32	93	biolegend
CD19	6D5	biolegend
CD11b	M1/70	biolegend
α4β7	DAT1C32	biolegend
Live/Dead	NA	lifetech
CD90.2	53-2 1	ebioscience
GATA3	TWAT	ebioscience
C-kit	288	biolegend
CD25	PC61 5	ebioscience
NCR	29414	biolegend
DX5	DX5	BD
CD45 1	A20	biolegend
U -13	eBio13A	ebioscience
SidlecE	E50-2440	BD
	Poly5164	biolegend
IL-22 II 17∆	eBio1787	ebioscience
	XMG1.2	ebioscience
GM CSE	MD1 22E0	BD
CCR6	140706	BD
Kiez	140700 SolA15	Ebioscioneo
	145 2c11	biologond
CD3 Cr 1	PR6 805	biolegend
	A7D24	biolegend
	PMD1 20	obiossionso
	104	biologond
		obiossiones
		ebioscience
		biologond
		biolegena
IL-3		ebioscience
FIL3	AZF 10.1	BD
CD49a		DD
	edi0-4d10	epioscience
	IN4 10,	biolegena
		obiocciona
	HI.2F3	
υ Ενυ-ΓΙΝΙΚ	9499-100	BIOVISION
PLZF	R17-809	BD
MHCII	M5/114.15.2	BD

Table 1 Antibodies for flow cytometry staining

Primer	Sequence(5'to3')	
Zbtb16-F	CTGGGACTTTGTGCGATGTG	
Zbtb16-R	CGGTGGAAGAGGATCTCAAACA	
Gapdh-F	AGGTCGGTGTGAACGGATTTG	
Gapdh-R	TGTAGACCATGTAGTTGAGGTCA	
m <i>ll22</i> -F	TCAGTGCTAAGGATCAGTGCT	
m <i>ll</i> 22-R	TGATTGCTGAGTTTGGTCAGG	
m <i>RegIllγ</i> -F	ATGGCTCCTATTGCTATGCC	
m <i>RegIllγ</i> -R	GATGTCCTGAGGGCCTCTT	
m <i>RegIIIβ</i> -F	ATGGCTCCTACTGCTATGCC	
m <i>RegIIIβ</i> -R	GTGTCCTCCAGGCCTCTTT	
m <i>ll22r</i> -F	GCTGGACTCCCTTGTGTGT	
m <i>ll22r</i> -R	CACATGGCCTCAGTCTCAA	
Rorc-F	CCGCTGAGAGGGCTTCAC	
Rorc-R	TGCAGGAGTAGGCCACATTACA	

Table 2 The qPCR primers

SourceDataF1E

