SUPPLEMENTARY FIGURE LEGENDS

Suppl. Figure 1: Impaired LN development in Clec1b^{-/-} embryos

A-D, Flow-cytometric analysis showing the gating of Ter119⁻CD41⁺ platelets (**A**) and the expression of CLEC-2 on platelets in the blood of E14.5 *Clec-1b*^{+/+} and *Clec-1b*^{-/-} littermates (**B**), E14.5 (**C**) and newborns (**D**) *Clec-1b*^{fl/fl} and *Clec1b*^{fl/fl}*PF4-Cre* littermates.

Suppl. Figure 2: Increased spleen/body ratio weight in Clec1b^{fl/fl}PF4-Cre mice

A, Chart showing the weight ratio spleen/body of $Clec1b^{fl/fl}$ and $Clec1b^{fl/fl}PF4-Cre$ adult littermates. **B**, Immunofluorescence analysis of section from adult spleen stained with B220 (green), Gp38/Podoplanin (red) and CD4 (blue) antibodies (first column) and with CD31 (green), IgM (red) and Lyve-1 (blue) antibodies (second column).

Suppl. Figure 3: Normal haematopoietic composition of the LNs in Clec1b^{fl/fl}PF4-Cre mice

A, Flow-cytometric analysis of mixed inguinal and mesenteric LNs single cell suspensions from 6-7 week old *Clec1b*^{fl/fl} and *Clec1b*^{fl/fl}*PF4-Cre* mice stained with Ter119, CD3 B220, CD11c, IgM and IgD. Percentages of Ter119⁺ red blood cells are shown in the histograms (first column). Percentages of CD3⁺ T cells and B220⁺ B cells (second column), CD11c⁺B220^{-/low} dendritic cells (third column), IgM^{high}IgD^{-/low} immature and IgD^{High}IgM^{-/Low} mature B lymphocytes (forth column) are shown in the dot plots.

Suppl. Figure 4: Clec1bfl/flPF4-cre bone marrow reconstitution led to the LN blood filled phenotype

A, Macroscopic appearance of mesenteric (left) and inguinal (right) LNs from adult WT mice reconstituted with $Clec1b^{fl/fl}$ and $Clec1b^{fl/fl}PF4-Cre$ BM. **B**, Immunofluorescence analysis of LN sections of WT mice reconstituted with $Clec1b^{fl/fl}PF4-Cre$ BM stained for CXCL13 (green), CD11c (red), and CD4 (blue) (left) and CCL21 (green), ERTR-7 (red) and CD3 (blue) (right). **C**, Chart showing the absolute number of CD4⁺ T cells and CD8⁺ T cells per inguinal and mesenteric LNs from WT mice reconstituted with $Clec1b^{fl/fl}(black circle)$ or $Clec1b^{fl/fl}PF4-Cre$ (open circles) BM. Unpaired Student's t test, *p<0.05, *** p<0.005.

Suppl. Figure 5: Model showing the role of CLEC-2 in LNs formation and function









inguinal LN mesenteric LN

inguinal LN mesenteric LN



growth (defect in LEC proliferation) HEV