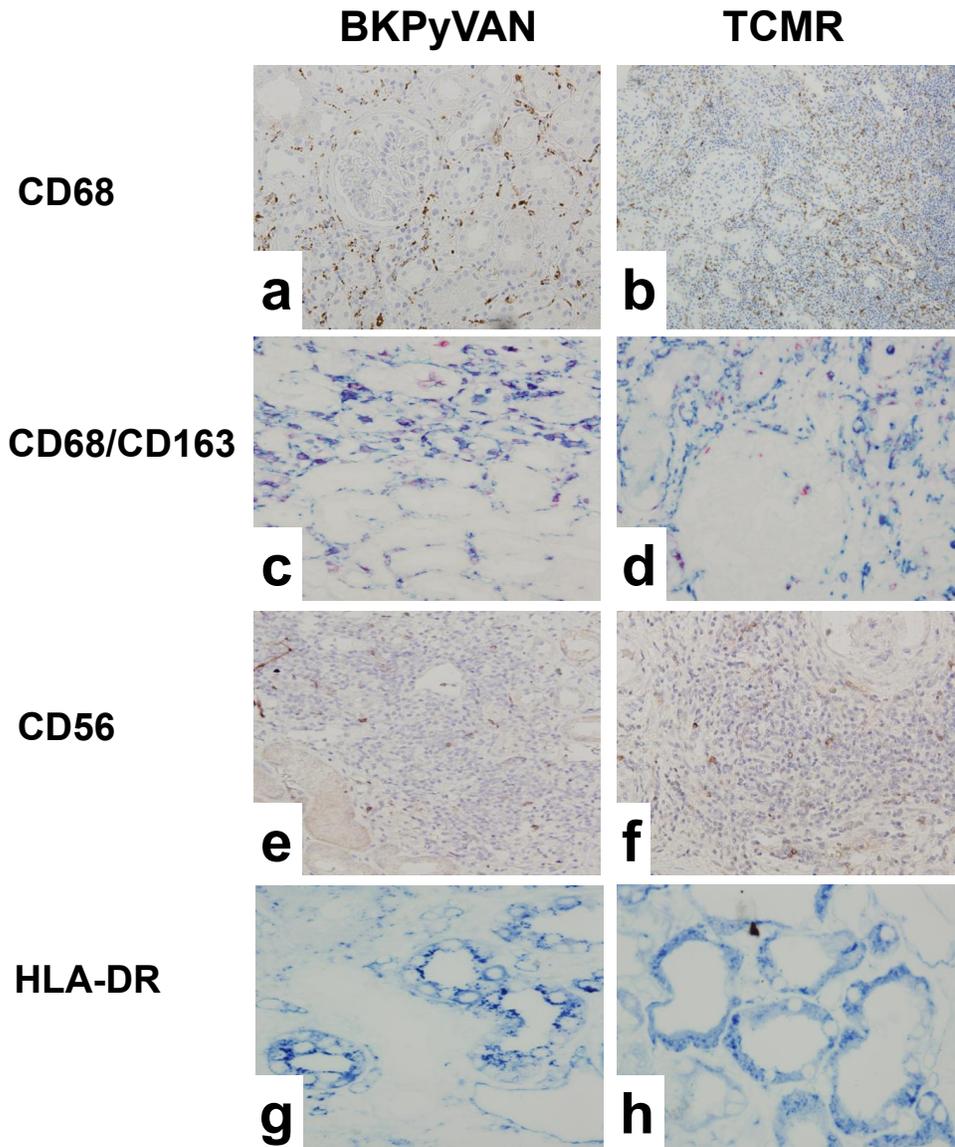
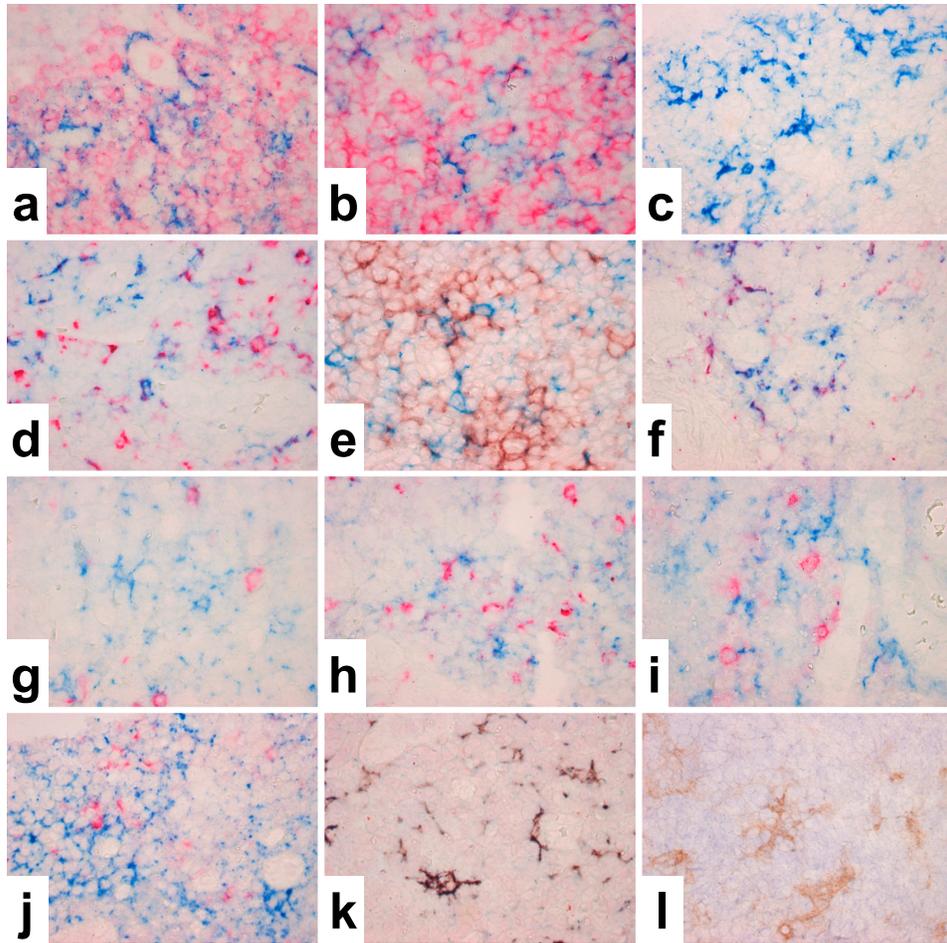


Supplementary files



**Figure S1. Additional immunostainings in PVAN and TCMR.** (a-b) Show CD68<sup>+</sup> macrophages, (c-d) CD163<sup>+</sup>/CD68<sup>+</sup> type 2 macrophages, (e-f) CD56<sup>+</sup> NK cells and (g-h) granular HLA-DR staining. Magnification 20x, HLA-DR 400x.



**Figure S2. Validation of specificity of the BDCA-1 staining in tonsillar tissue.** Double stainings of BDCA-1 (indicated in blue) with various cell types (indicated in red) were performed. (a) CD3<sup>+</sup> T cells, (b) CD20<sup>+</sup> B cells, (c) CD15<sup>+</sup> neutrophils, (d) CD68<sup>+</sup> macrophages, (e) CD123<sup>+</sup> plasmacytoid DCs, (f) CD163<sup>+</sup> type 2 macrophages, (g) c-KIT<sup>+</sup> mast cells, (h) MPO<sup>+</sup> neutrophils, (i) tryptase<sup>+</sup> mast cells and (j) DC-LAMP<sup>+</sup> mature DCs all did not co-localize with BDCA-1. (k) Shows that the majority of cells stain purple, indicating co-localization of DC-SIGN with BDCA-1 in dendritic cells. (l) BDCA-1 staining was also validated on frozen sections, which showed the same dendritic cell staining as the formalin-fixed, paraffin-embedded stainings. Magnification 40x.

**Table S1. Missing stainings broken down per diagnostic group**

Staining	BKPyVAN	TCMR	<i>P</i> -value
	N = 22	N = 37	
CD3	2 (7%)	0 (0%)	0.1
CD20	2 (7%)	0 (0%)	0.1
CD56	0 (0%)	9 (24%)	0.02
CD68	8 (29%)	19 (51%)	0.3
CD123	0 (0%)	17 (46%)	<0.0001
CD138	4 (14%)	7 (19%)	1
CD163/CD68	4 (14%)	13 (35%)	0.2
HLA-DR	14 (50%)	20 (54%)	0.6
DC-SIGN	0 (0%)	13 (35%)	0.001
DC-LAMP	4 (14%)	12 (32%)	0.36
BDCA-1	0 (0%)	17 (46%)	<0.0001

Data are represented as missing number of biopsies (%). *P*-values were calculated with 2-sided Fisher's exact tests.