

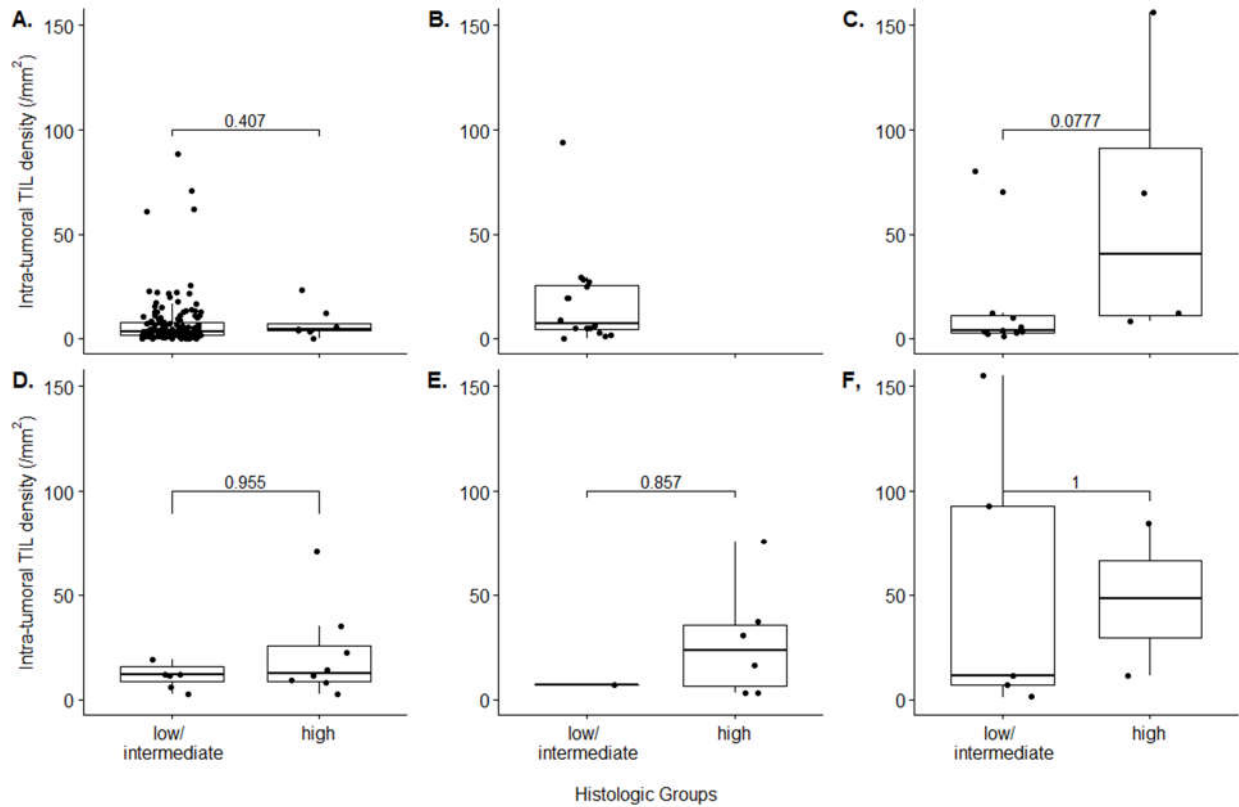
**Supplementary Table S1. Number of annotated cells in the training and validation sets.**

	<b>Lymphocyte</b>	<b>Tumor cell</b>
Training	465,778	1,644,697
Validation	150,041	567,781

**Supplementary Table S2. Area of annotated tissues in the training and validation sets.**

	Area (mm <sup>2</sup> )		
	Tumor Area	Tumor Stroma	Background
Training	7,861	5,693	18,505
Validation	600	421	983

**Supplementary Figure S1. Intratumoral tumor-infiltrating lymphocytes (TIL) density in high-grade NENs and low/intermediate-grade NENs according to the primary origin. (A) Colorectum (B) Small intestine (C) Hepatopancreatobiliary (D) Stomach (E) Lung (F) Other organs. Values in graph indicates *P* values.**



**Supplementary Figure S2. PD-L1 combined positive score (CPS) in high-grade NENs and low/intermediate-grade NENs according to the primary origin. (A) Colorectum (B) Small intestine (C) Hepatopancreatobiliary (D) Stomach (E) Lung (F) Other organs.**

