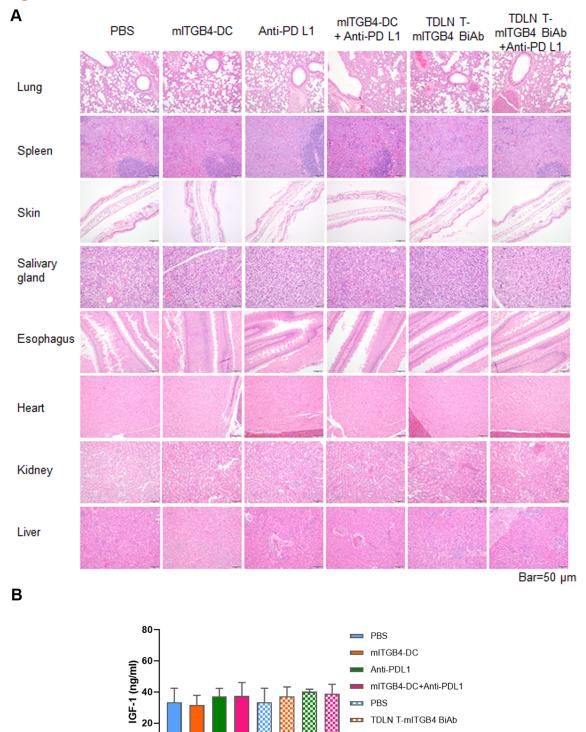
## **Supplementary Data**

## Figure S1.

Integrin β4-targeted cancer immunotherapies did not cause severe immunotherapy-related toxicity. A: Histopathology analysis of internal organs and glands. At the end of *in vivo* experiments, treated mice were evaluated with histopathology for the impact of mITGB4-DC and TDLN T-mITGB4 BiAb on internal organ tissue and gland pathology. Internal organs and glands were harvested from mice subjected to treatment: PBS, mITGB4-DC, TDLN T-mITGB4 BiAb, anti-PD-L1, mITGB4-DC + anti-PD-L1 or TDLN T-mITGB4 BiAb + anti-PD-L1. Harvested heart, liver, lung, kidney, spleen, esophagus, skin and salivary gland were fixed in 10% formalin, sectioned and stained with hematoxylin and eosin (H&E). Toxicity was then assessed by veterinary pathologists from the In-Vivo Animal Core at University of Michigan. It was concluded by the pathologists that since all animals (including PBS control treated mice) showed a similar degree of systemic inflammatory changes, there does not appear to be a difference in the incidence or severity of lesions between each group, suggesting a lack of a test article-related response. Furthermore, during the preparation of Fig. S1A, a veterinary pathologist from the In-Vivo Animal Core at University of Michigan informed us that pulmonary bleeding was not observed. Together, these data indicate that ITGB4targeted immunotherapies did not result in significant organ and gland destruction when used as a single agent or in combination with anti-PD-L1. Representative images of H&E stained paraffin sections from different organs and glands are shown. Scale bar, 50 µm. B: Testing of IGF-1 via ELISA. IGF-1 in plasma of mice treated with PBS, mITGB4-DC, TDLN T-mITGB4 BiAb, anti-PD-L1, mITGB4-DC + anti-PD-L1 or TDLN T-mITGB4 BiAb + anti-PD-L1 were detected using IGF-1 Mouse ELISA Kit (Invitrogen, Waltham, MA) according to the manufacturer's instruction. ITGB4-targeted immunotherapies did not perturb the plasma levels of IGF-1. Representative plasma levels of IGF-1 are shown in mice treated with PBS, mITGB4-DC, TDLN T-mITGB4 BiAb, anti-PD-L1, mITGB4-DC + anti-PD-L1 or TDLN T-mITGB4 BiAb + anti-PD-L1. ELISA detections were performed three times. These data show clearly that levels of IGF-1 in plasma of mice treated as indicated did not alternate.





T cell therapy

DC vaccine

TDLN T-mITGB4 BiAb

TDLN T-mITGB4 BiAb+Anti-PDL1

Anti-PDL1