**Supplemental Figure S1. Establishment of anti-Tnmd antibody.**

(A) Detection of Tnmd transfected in NIH3T3 cells. Human Tnmd was transfected in NIH3T3 cells to evaluate antibody reactivity.  
(B) Detection of FLAG-tagged Tnmd transfected in NIH3T3 cells by western blot analysis. Cell lysates of transfected cells were first detected using the anti-FLAG M2 antibody, then subsequently with the anti-Tnmd antibody.  
(C) Immunohistological evaluation of anti-Tnmd antibody. WT and Tnmd-KO mice tail specimens were stained without the primary antibody, with normal rabbit serum, or with anti-Tnmd antibody. Arrow indicates the region of positive signal. c: cartilage, hf, hair follicle, m: muscle, n: nerve, t: tendon. Scale bar = 500 µm.