Supplemental Data:

Figure S1. No difference between T cell responses to TSHR A-subunit protein or mitogen in wild-type and Aire defective mice. Splenocytes from Aire +/+ (n=7), Aire +/- (n=8) and Aire -/- (n=7) mice immunized three times with A-subunit-Ad were incubated in medium alone or with A-subunit protein (panel A) or Concanavalin A (panel B) for 6 days and culture supernatants were analyzed for IFN-g by ELISA (Methods). Controls were splenocytes from Aire +/+ and +/- mice (n=5) immunized with Con-Ad. The data are shown as the mean + SEM ng/ml IFN-g for each group. In panel B, the shaded area represents the mean \pm SEM for splenocytes from all groups cultured in medium only. Significant differences between splenocytes incubated with A-subunit protein versus medium alone: * p=0.038 for Aire -/-, p=0.015 for Aire +/- and p=0.003 for Aire +/+ mice (paired t tests).

Figure S2. Similar recognition of TSHR peptides by wild-type and Aire defective mice. Splenocytes from Aire +/+ (n=7), Aire +/- (n=8) and Aire -/- (n=7) mice immunized three times with A-subunit-Ad were challenged for 6 days with a panel of TSHR peptides (A to Z, EC1, EC2, EC3; see Methods) or cultured in medium alone (Med) and responses measured as IFN- γ generated. Responses of splenocytes from +/+ mice immunized with Con-Ad (n=5) were used as controls. The data are shown as the mean + SEM (ng/ml IFN- γ) for responses to each peptide. The dominant peptides recognized by splenocytes for each group are indicated by capital letters.