Figure S1 – BALB/c Aire-deficient mice generate spontaneous dacryoadenitis. Histological analysis of 15 week old BALB/c animals demonstrates an immune infiltrate in the lacrimal glands of Aire-deficient animals that is not present in Aire-sufficient animals.

Figure S2 – CD4+ and CD8+ T cells and B cells are present in the immune infiltrates of BALB/c Aire-deficient mice. The lacrimal glands of 12 week old Aire-deficient (A) and Aire-sufficient (B) BALB/c animals were analyzed by immunostaining of frozen sections with antibodies specific for CD4 and CD8 (T cells) or IgD (B cells).

Figure S3 – CD3+ T cells are present in the immune infiltrates of NOD.scid mice that receive OBP1a stimulated T cells. Cervical lymph node cells harvested from 6 week old NOD.Aire-deficient animals were cultured with 50ug/ml of maltose binding protein (MBP) protein alone (A) or OBP1a-MBP fusion protein (B). After 4 days in culture, lymphocytes were purified by Ficoll centrifugation and 1.5 million cells were adoptively transferred into NOD.scid recipients. Animals were sacrificed 4 weeks post-transfer and paraffin sections were stained with antibodies for anti-CD3 or isotype control.
BALB/c Aire-sufficient  BALB/c Aire-deficient