

TRAF6 expression in DC is essential to establish tolerance against dietary antigens

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The intracellular signaling mediator TRAF6 is critical for Toll-like receptor (TLR)-mediated activation of dendritic cells (DCs). Recently we have reported that TRAF6 in DCs is important to maintenance of intestinal immune tolerance through balanced induction of regulatory T cells versus Th2 immunity. In addition, we found a clue that loss of TRAF6 Δ DC mucosal tolerance requires the presence of commensal microbiota by using antibiotic treatment, which appears independent of the Myd88 pathway. However, which environmental factors including dietary antigens induce abnormal Th2 immunity and disease phenotype in TRAF6 Δ DC mice remains unclear. Here we suggest that spontaneous gut inflammation occurred in TRAF6 Δ DC mice is strongly associated to dietary antigens.