

Supporting Information

Honma *et al.* 10.1073/pnas.08031711105

SI Methods

Mice were injected in the left hind footpad with 1×10^6 promastigotes of *Leishmania major* MHOM/S U/73-5-ASKH strain. The thickness of the infected and contralateral uninfected footpad was measured as described (1).

To measure the immune responses to pathogens, draining popliteal lymph node cells ($3\text{--}10 \times 10^4$) were cultured in the presence of *L. major* antigen for 48 h as described (1).

1. Tominaga N, *et al.* (2003) Development of Th1 and not Th2 immune responses in mice lacking IFN-regulatory factor-4. *Int Immunol* 15:1–10.

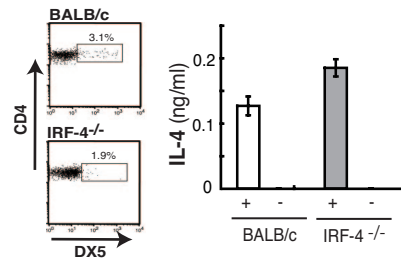


Fig. 52. CD4⁺ NK T cells from IRF-4^{-/-} mice produce IL-4 in response to α -GalCer. (*Left*) Splenic CD4⁺ T cells were stained with FITC-anti-CD4 and with biotin-anti-DX5 mAb plus streptavidin-phycoerythrin and analyzed by using FACS Aria. The proportion of cells within the square is indicated. (*Right*) Sorted CD4⁺DX5⁺ cells (5×10^4) from BALB/c (open bar) and IRF-4^{-/-} (filled bar) mice were cultured with splenic dendritic cells (CD11c⁺ cells, 1×10^4) in the presence (+) and absence (-) of α -GalCer (200 ng/ml) for 48 h. The cytokine levels in the supernatant were determined by ELISA. The purity of CD4⁺DX5⁺ cells from BALB/c and IRF-4^{-/-} mice was 93.3 and 70.6%, respectively. The lower purity of CD4⁺DX5⁺ cells from IRF-4^{-/-} mice was caused by the lower expression of DX5 marker and their small numbers.

Table S1. Primer sequences used for real-time RT-PCR

Name	5' primer	3' primer
IL-4	TCATCGGCATTTTGAACGAG	TTTGGCACATCCATCTCCG
IL-5	CTCTCAGCTGTGTCTGGGCC	GCTTGTCAACAGAGCTCGGTG
IFN- γ	GCATTCATGAGTATTGCCAAGTTT	GATTCCGGCAACAGCTGGT
IRF-1	ATTCCAACCAATCCCAGGG	CTCCGGAACAGACAGGCATC