RhoH Deficiency Evokes Psoriasis-like Chronic Dermatitis

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Abstract
RhoH, a hematopoietic lineage cell specific atypical small GTPase, functions as an adaptor for ZAP70, Syk, and lck, therefore plays an important role on development and activation of T cells. We found that RhoH deficient mice spontaneously developed psoriasis-like chronic dermatitis with age. Development of the dermatitis was dependent on RhoH−/− lymphocytes. RhoH deficiency gave rise to Th17-biased T cell activation in vivo, which is a probable cause of psoriasis development. Our current finding that deficiency of a TCR-signaling-related molecule induced psoriasis-like dermatitis may shed a new light on understanding of the pathogenesis of psoriasis.

Selected Publications