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Title (English)

Study of the autoimmune B cell response in complement receptor deficient mice

Title (Swedish)

Abstract

Collagen-induced arthritis (CIA) is an animal model used to study the immune mechanisms behind the human autoimmune disease rheumatoid arthritis (RA). In this study wild type (WT) and complement receptor 1 and 2 (CR1/2)-deficient DBA/1 mice have been examined in order to investigate the role of complement receptors in the regulation of self-reactive B cells in CIA. The mice were immunized with collagen type II (CII) in adjuvant and the B cells from the spleen and the lymph nodes were analyzed using ELISPOT. Our results indicate that self-tolerance to CII in the spleen breaks earlier in CR1/2-deficient mice than in WT mice. Additionally, we have seen that naïve DBA/1 mice have CII-reactive B cells present in the spleen prior immunization.

Keywords

Complement receptors, B cells, mice, collagen-induced arthritis

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