

In vitro analyses of autoreactive B cells and pDCs clearly demonstrate a critical role for both TLR7 and TLR9 in the detection of endogenous nucleic acid ligands and activation of autoreactive B cells and dendritic cell subsets. Ligands for TLR7 and TLR9 are bound by surface receptors, either the BCR or an Fc γ R, and then delivered to endolysosomal compartments where TLR7 or TLR9 are subsequently engaged, leading to immune activation. However, in vivo analyses of autoimmune-prone mice have revealed a more complex interplay between TLR9- and TLR7-driven activation of key effector populations and the severity of systemic autoimmune diseases such as SLE. It is clear that TLR7/BCR co-engagement promotes B cell activation, autoantibody production, and clinical disease. By contrast, TLR9 has a biphasic role and appears to initially limit the activation of B cells reactive to DNA or DNA-binding proteins, either by contributing to the production of protective antibodies or by directly constraining B cell responses to endogenous ligands. Nevertheless, TLR9 is still required for the full-scale activation of B cells with similar DNA/DNA-binding autoantigen reactivities.

Going Vegetarian: A Healthy Guide to Making the Switch (Food Revolution), Go, Orange & Blue! Beat the Criminoles! (University of Florida), The Music Man - A Musical Comedy - Vocal Score, Penthouse Variations April 1983 (FOR MY SELF: INTIMATE MASTURBATION SECRETS), PostGIS 2 Analisis Espacial Avanzado (Spanish Edition), The Meaning Behind the Meeting, Hiking, Walking and Biking Nagano: 16 Tours in Nagano City, The Life of Sir Rowland Hill: Vol. II (of 2),

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