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ACCEPTED MANUSCRIPT

Immune-modulation via IgD B-cell receptor suppresses allergic skin inflammation in experimental contact hypersensitivity models despite of a Th2-favoured humoral response

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Short title: Anti-IgD ameliorates allergic skin inflammation in vivo

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Highlights

- The novel therapeutic effect of anti-IgD treatment is more efficacious than anti-CD20 treatment in suppressing allergic skin inflammations in murine models of chronic contact hypersensitivities (CHS).
- Anti-IgD effectively suppresses allergic skin inflammation despite an enhanced Th2skewed antibody response in vivo.
- Anti-IgD selectively depletes 'initiator' mature CD19⁺IgD^{hi} B cells while promotes regulatory B cells and T cells in vivo.
- Collectively, these findings highlight the therapeutic potentials of targeting IgD B cell receptor with a monoclonal antibody as a novel treatment of chronic atopic dermatitis.

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