

A normal antibody response to a pathogen that triggers an autoimmune reaction in dermatomyositis is first initiated by follicular dendritic cells in the B cell zone of the regional lymph node. These cells trap pathogen-derived antigens on their surface and present them to naive B cells. B cells that recognise protein antigens with their B cell receptors (BCR) endocytose them and present peptide antigens on surface HLA class II receptors to CD4+ helper T lymphocytes in the T cell zone of regional lymph nodes. The primed B cell then requires activation signals from a previously activated CD4+ helper T lymphocyte that recognises a peptide from the same antigen.

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