

Reading free Development and function of dendritic cell subsets (Download Only)

Dendritic cells (DCs) are a type of white blood cell that plays a crucial role in the immune system. They are specialized for antigen presentation and are found in various tissues throughout the body. DCs are derived from hematopoietic stem cells (HSCs) in the bone marrow and form a widely distributed cellular system throughout the body.

The main function of DCs is to process antigen material and present it on the cell surface to the T cells of the immune system. They act as messengers between the innate and adaptive immune systems. DCs are also known as accessory cells of the mammalian immune system.

DCs are a diverse group of specialized antigen presenting cells with key roles in the initiation and regulation of innate and adaptive immune responses. As such, there is a wide variety of DC subsets, each with distinct functions.

DCs are uniquely potent in orchestrating T cell immune response. Thus, they are indispensable immune sentinels. They originate from progenitors in the bone marrow through hematopoiesis, a highly regulated developmental process involving multiple cellular and molecular events.

DCs are professional antigen presenting cells that inform the fight against invasive pathogens while enforcing tolerance to self and harmless environmental antigens. They capture pathogens and receive signals from pathogens that influence the outcome of immune responses.

After nearly 35 years of research, there are many perspectives from which to appreciate the powerful

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