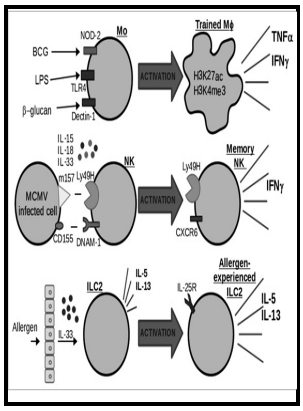
Specificity, function and development of NK cells - NK cells, the effector arm of innate immunity

Springer - Functions of natural killer cells



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Although it has been widely used to expand human and mouse NK cells ex vivo, the in vivo role of IL-2 that is primarily produced by CD4 + T cells is yet to be better understood. NK cells lack the clonotypic T cell receptor TCR of T and NKT cells and its associated signal-transducing adaptor, CD3ε.

Specificity, function and development of NK cells (1998 edition)

Hierarchy of the human natural killer cell response is determined by class and quantity of inhibitory receptors for self-HLA-B and HLA-C ligands. These signals involve ITAM immunoreceptor tyrosine-based activation motif -bearing molecules and other stimulatory receptors and adhesion molecules, as well as ITIM-bearing inhibitory receptors. Few of the examples are described below.

Functions of natural killer cells

Interactions between the innate NK cells and the primary arms of the adaptive immunity T and B cells are less explored. Emerging aspects of NK cell biology In contrast to their protective role in various inflammatory conditions, NK cells can also act as mediators of innate immunopathology. However, direct interaction between KIR3DS1 and HLA-Bw4 remains to be shown.

SPECIFICITY, FUNCTION, AND DEVELOPMENT OF NK CELLS: NK By Klas Karre & Marco

NK Cell-Mediated Pro-Inflammatory Cytokine Production Natural killer cells are potent producers of pro-inflammatory and immunosuppressive cytokines. Granzyme B and perforin are a critical component of NK cell lytic granules and is classified as an apase that cleaves peptides after aspartic acid residues. These innovative NK cell—based therapeutic protocols complement the reappraisal of the role of NK cells in ADCC in the treatment of cancer.

Innate and Adaptive Immunity

Thus, although the in vivo role of NK cells in humans is still a matter of debate, the biological consequences of NK cell responses should not be hastily underestimated.

Frontiers

In addition, the secretion of type I interferon and IL-12 by plasmacytoid DCs increases NK cell proliferation, cytotoxicity and IFN-γ production , whereas chemokines such as CCL3 MIP-1α , CXCL10 IP-10 and CXCL9 MIG coordinately regulate NK cell trafficking.

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