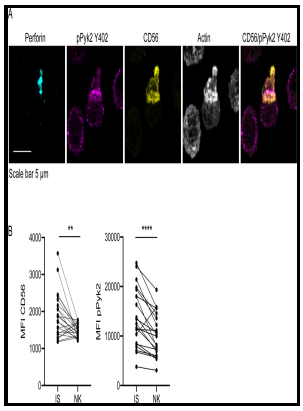
NK cell mediated cytotoxicity - receptors, signaling, and mechanisms

CRC Press - Frontiers



Description: -
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Signal Transduction -- physiology.
Receptors, Immunologic.
Killer Cells, Natural -- physiology.
Cytotoxicity, Immunologic.
Cell Adhesion Molecules.
Cell receptors.
Cellular signal transduction.
Cancer cells.
Cell-mediated cytotoxicity.
Killer cells.
Cancer -- Immunological aspects.NK cell mediated cytotoxicity - receptors, signaling, and mechanisms
-NK cell mediated cytotoxicity - receptors, signaling, and mechanisms
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Natural killer cell

Thus, licensed NK cells are deemed functionally competent and are self-tolerant due to the interaction between inhibitory receptors and MHC-I while unlicensed NK cells, represented by those that do not express self-MHC-I-specific inhibitory receptors, are tolerant because they are functionally incompetent. Transcriptional profiles cluster on the basis of cell cycle state.

NCR1 natural cytotoxicity triggering receptor 1 [Homo sapiens (human)]

The following are some of the primary mechanisms by which NK cells perceive target cells. A detailed description of all methodologies and assays for detecting apoptosis is beyond the scope of this article.

Antibody Dependent Cellular Cytotoxicity

For example, blockers targeting PD-1 are antibodies designed to bind PD-1 expressed by T cells and reactivate these cells to eliminate.

Hepatic stellate cells suppress NK cell

Nat Rev Mol Cell Biol.

Antibody Dependent Cellular Cytotoxicity

DNA breakdown by Ca 2+-and Mg 2+-dependent endonucleases also occurs, resulting in DNA fragments of 180 to 200 base pairs.

Cancer immunotherapy

Daniel Scott-Algara, in , 2010 Antibody-dependent cell cytotoxicity ADCC is an adaptive immune response largely mediated by NK cells through

the CD16 FCγRIII receptor that binds the Fc portion of IgG antibodies triggering the lysis of targeted cells. Whether a cell dies by necrosis or apoptosis depends in part on the nature of the cell death signal, the tissue type, the developmental stage of the tissue and the physiologic milieu ;. Although a single apoptotic cell can be detected with this method, confirmation with other methods may be necessary.

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