

LEAGUE OF IMMUNO LEGENDS - CELL MATCHING KEY

KEY

Name: _____ Date: _____

Directions: Write the name of the immune cell in the box next to the descriptions given.

Word Bank

Natural Killer Cell	Killer T-Cell	Macrophage	Plasma B-Cell
Dendritic Cell	Basophil	Neutrophil	Helper T-cell
Regulatory T-Cell	Memory B-Cell	Eosinophil	Mast Cell

Immune Cell	Description
Macrophage	Innate, detects, engulfs and destroys bacteria or other harmful microorganisms, can also present antigens to T-cells and release cytokines
Mast Cell	Innate, carries granules containing histamine and heparin, plays a role in the inflammatory process.
Natural Killer Cell	Innate, when activated by cytokines, releases cytotoxic granules to destroy altered cells
Plasma B-Cell	Adaptive, produces large quantities of antibodies
Killer T-Cell	Adaptive, produces toxic granules containing powerful enzymes that induce the death of pathogen-infected cells
Neutrophil	Innate, usually first responder to a microbial infection and forms pus

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Eosinophil	Innate, responds to allergies, parasitic infections, collagen diseases, and diseases of the spleen and central nervous system, secretes chemicals that destroy large parasites
Basophil	Innate, responsible for allergic and antigen response, excretes histamine and heparin, can also release chemical signals to attract eosinophils and neutrophils
Memory B-Cell	Adaptive, "remembers" each specific pathogen encountered, allows the immune system to mount a stronger and faster response to a pathogen detected again
Regulatory T-Cell	Adaptive, Suppresses the immune response, maintains homeostasis and self-tolerance, helps inhibit T cell proliferation and cytokine production to avoid autoimmunity
Dendritic Cell	Innate, bind and retain antigens to be presented to T-Cells, induce the differentiation of germinal B-cells into memory B-cells
Helper T-Cell	Adaptive, produces cytokines to direct an immune response, important in activating B cells, macrophages and killer T cells