

# AP Bio Immunity POGIL

endocytosis of a pathogen by a phagocyte - ANSWER What is one response of the human immune system?

helper T cell - ANSWER what type of white blood cell is involved in the cell-mediated response?

No, the shapes of the surface proteins of each helper T cell are different - ANSWER Are all helper T cells the same?

1. Pathogen is broken apart by chemicals in the phagocyte.
2. A piece of the pathogen is presented on the surface of the phagocyte.
3. The helper T cell binds to the piece of pathogen presented on the phagocyte.
4. Helper T cell disperses a chemical signal to activate other immune response systems. - ANSWER What are the steps of the cell-mediated process?

no; T cells don't interact with pathogens at all. - ANSWER do the helper T cells interact with the free pathogens in the blood?

antigens are the pieces of pathogens that are presented on the surface of a cell - ANSWER what are antigens?

cells that present antigens on their surface; they activate helper T cells to allow the helper T cells to initiate a series of rapid cell divisions - ANSWER what are antigen-presenting cells?

no; some helper T cells don't have the proper surface proteins to be able to bind to the antigen-presenting cell/pathogen. - ANSWER do all types of helper T cells bind to all antigens?

humoral response - ANSWER what is the name of the immune system that involves B cells?

no, just like the T cells, B cells have different shapes of surface proteins - ANSWER Are all B cells the same?

the B cell is binding to an antigen that is still connected to the whole pathogen organism. the T cell didn't bind to the antigen until after it had been broken down in the

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**CH Cherryholmes**

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