

# CLASS SET DO NOT REMOVE FROM THE CLASSROOM

## Immunity

Name: KEY  
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How does our immune system protect us from disease?

### Model 1 – Cell Mediated Response

#### Why?

One way in which organisms maintain homeostasis is by detecting foreign cells and particles like pathogens and cancer cells. Once the pathogen is detected and identified, other systems in the organism's body can attack the invader, thus keeping the organism healthier. Cells of the human immune system are finely tuned to recognize and respond quickly to disease-causing organisms.



1. In Model 1 a **pathogen** (virus, bacteria, foreign protein, parasite) has entered the bloodstream of an individual. Draw the symbol that represents the pathogen.



2. One response of the human immune system is endocytosis of a pathogen by a **phagocyte** (a type of white blood cell). Refer to Model 1.

a. Which diagram in the cell mediated response illustration shows this process?

Diagram 1

b. Draw the symbol that represents the phagocyte.



3. Another type of white blood cell that is involved in the cell mediated response is a **helper T-cell**.

a. Draw the symbol that represents the helper T-cell in Model 1.



b. In your drawing above, circle the specialized surface proteins on the helper T-cell.

4. According to Model 1, are all helper T-cells the same? Justify your answer with specific evidence from Model 1.

No, not all helper-T cells are the same because the 'arms' (antigen-complementary proteins) are different. These 'arms' complement the antigens so it is necessary that there are different helper-T cells.

# Pogil Activities For Ap Biology Immunity Answers

**Roman Wölfel**



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