

Microbiology Learning Objectives C17  
Adaptive Immunity: Specific Defenses of the Host

1. Differentiate innate from adaptive immunity. Is a vaccination innate or adaptive?
2. Differentiate humoral from cellular immunity. Why do we need both?
3. Define antigen, epitope, and hapten.
4. What is the function of antibodies? (two functions)
5. Compare and contrast T-dependent and T-independent antigens.
6. Differentiate B-cells from plasma cells from memory cells.
7. What is clonal selection?
8. What are the four outcomes of an antigen-antibody reaction?
9. What is the function of M cells, Helper T cells, cytotoxic T cells, regulatory T cells, CTLs, and Natural Killer cells?
10. What is apoptosis? What other name describes its function?
11. What is an antigen presenting cell? The cell types?
12. What is the function of MHC proteins? Types?
13. What is the function of the cytokines, interleukins, chemokines, interferon, TNF, and hematopoietic cytokines?
14. Distinguish a primary from a secondary immune response?
15. What are the four types of adaptive immunity?