

# Cell-mediated immunity

# Adaptive immunity- a reminder.

- There are two major groups of invaders.
- The extracellular invaders such as bacteria, some protozoans and helminth parasites
- The intracellular invaders such as viruses, some bacteria and some protozoa
- ANTIBODIES FIGHT EXTRACELLULAR INVADERS
- CELL-MEDIATED RESPONSES FIGHT INTRACELLULAR INVADERS

Step 1 Antigen is trapped and processed

Step 2 Antigen is recognized by lymphocytes

Step 3a Antigen recognized by helper T cells and B cells triggers antibody formation

Step 3b Antigen recognized by helper T cells and cytotoxic T cells triggers cell-mediated immunity

Step 4 Antigen is eliminated

Memory is established

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