


# Human Blood Cell Typing

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Our organisms manufacture antibodies automatically to many molecules, proteins, and microorganisms. Among others, when foreign red-cell surface glycoproteins (antigens) are in the bloodstream they stimulate the immune system to manufacture antibodies. These antibodies (antibodies) are produced by lymphocytes (B-cells) and plasma cells. These antibodies are used for killing microorganisms that enter the bloodstream. This antibody must react with antigens that also circulate in the bloodstream.

## Model 1 – Red Blood Cells and Antibodies

	Person with Blood Type A	Person with Blood Type B	Person with Blood Type AB	Person with Blood Type O
Cells with attached antigens				
Antibodies produced				
Cells in the presence of anti-B antibodies				
Cells in the presence of anti-A antibodies				

1. Blood types in the human population are characterized by their presence or absence of **antigens** on their surfaces and their **antibodies**.

a. How many of Model 1, using many blood types and found in the human population?

b. Which blood is used in Model 1 to represent anti-A antibodies?

c. What relationship is type A with blood and how is type B and blood type?

# Human Blood Cell Typing Answers Pogil

**RS Peters**



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