

Twenty-first Ask OBI Anything (AOA)

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April 8, 2026

Objectives

- Welcome
- Transfusion Section Website
- Response to Questions – What is an antibody screen positive unit?
- Education – ABO System
- Blood Drives/System Inventory Status

Website

- <https://ourbloodinstitute.org/hospital/>

Ask OBI Anything – Response to Questions

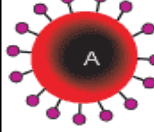
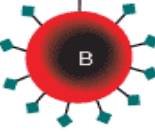
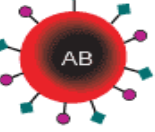
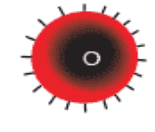
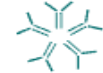





What is an antibody screen positive unit?

- Donor was found to have a positive antibody screen
 - OKC Reference Lab completes additional testing on these donors to see if their RBC can still be utilized for transfusions
 - While antibodies are primarily in the plasma, there are still residual amounts in the red blood cell unit
 - These units are only selected for patients that lack the corresponding antigen to the antibody present
- These units are tagged with a pink sticker on the label and a manila tag to identify them for transfusion service use only
- Without this process, all products from the donation would be disposed of, and the donors would be deferred



Education- ABO System

- Carbohydrate blood group system
- At birth, everyone has an ABO type – O, A, B or AB.
 - A and B are autosomal codominant; O is autosomal recessive
 - Interestingly, no antithetical antibodies
- By 6 months, we start to develop antibodies to the blood type antithetical to our own ABO type.
 - Majority of anti-A and anti-B antibodies are IgM isotype
 - Can activate complement and cause intravascular hemolysis
 - Higher titers of IgG isotypes in group O individuals
 - Can cross the placenta and cause hemolytic disease of the fetus and newborn (HDFN)

	Group A	Group B	Group AB	Group O
Red blood cell type				
Antibodies in Plasma	 Anti-B	 Anti-A	None	 Anti-A and Anti-B
Antigens in Red Blood Cell	 A antigen	 B antigen	 A and B antigens	None

[ABO blood group system - Wikipedia](#)



Our Blood Institute

Blood Drive/Blood Need

- Past Drives
 - Electra Memorial Hospital & Community – 33 donors with 3 first time donors!
- Upcoming Drives
 - Rural Wellness Stroud – April 13th
 - Haskell Regional Hospital – April 15th
 - Mercy Rehab Oklahoma City – April 15th

O NEGATIVE DONORS NEEDED!



Thank you

The End