





ABO System with Rh Factors				
Туре	Antigen	Antibody	Feauture	
A+ve	A-AntigenRh-Antigen	 B-Antibody (Anti-B) 	 Doner: A+ and AB+ Recipient: A+, A- and O+, O- 	
A-ve	 A-Antigen 	 B-Antibody (Anti-B) 	 Doner: A+, A- and AB+, AB- Recipient: A- and O- 	
^{B+}	B-AntigenRh-Antigen	 A-Antibody (Anti-A) 	 Doner: B+ and AB+ Recipient: B+, B- and O+, O- 	
B-	 B-Antigen 	 A-Antibody (Anti-A) 	 Doner: B+,B- and AB+, AB- Recipient: B- and O- 	
AB+	A-AntigenB-AntigenRh-Antigen		 Doner: AB+ Recipient: Everyone (Universal Reciever) 	
AB-	A-AntigenB-Antigen		 Doner: AB+ and AB- Recipient: A-, B-, AB-, and O- 	
0+	•	A-Antibody (Anti-A) B-Antibody (Anti-B)	 Doner: A+, B+, AB+, and O+ Recipient: O+ and O- 	
0-	•	A-Antibody (Anti-A)》 B-Antibody (Anti-B)》	 Doner: Universal Doner Recipient: O- 	

Rh-Factor significance

- Rh-factor or Rhesus factor, is a certain type of surface protein present in the blood and if present, blood group is positive and if absent, blood group is negative
- The Rh blood group system was discovered in 1940 by Karl Landsteiner and A.S. Weiner. Since that time a number of distinct Rh antigens have been identified, but the first and most common one, called RhD, causes the most severe immune reaction and is the primary determinant of the Rh trait
- Significance:
- -ve blood group person can donate to both +ve and ve blood group, can but receive from –ve one only
- In Pregnancy: -ve mother with +ve foetus can make some serious complication for second pregnancy
- It can prevented by **Rh-immunoglobin** at specific times during pregnancy to neutralizing the Anti-Rh



