

HLA Typing by DNA Technology

Questions: 13-35

13. Was documentation submitted to the CIBMTR? (e.g. lab report) yes no

HLA Alleles Defined by DNA Technology (e.g., Sequence Specific Oligonucleotide Probe (SSOP) typing, Sequence Specific Primer (SSP) typing or Sequence Based (SBT) typing.)

DNA technology can be used to type for a single allele, combinations of alleles (allele strings) or a “generic” allele designation which is similar to a serologic typing result. For this reason, the number of digits, as well as the number of alleles, for reporting will vary.

Laboratories may use “/”, “-” or a combination of numbers and letters on the typing report as a shorthand notation for the results.

Transcribe the information onto the form as directly as possible. The letters are called allele codes, and will be 1 or more characters in length which represent a combination of possible alleles at a locus. The same allele combination may be reported several different ways (e.g., DRB1*01:01 or 01:02, DRB1*01:01/01:02, DRB1*01:01/02, or DRB1*01:AB).

There will be two alleles reported for each locus, unless the individual is presumed homozygous (i.e., carries two copies of the same allele) at a locus. Transcribe the first allele designation in the first box, and the second allele designation in the second box. If the person is homozygous, leave the second box blank.

Class I

14. Locus A

 Known Unknown

15. First A* allele designations: _____

Second A* allele designations: _____

16. Locus B

 Known Unknown

17. First B* allele designations: _____

Second B* allele designations: _____

18. Locus C

 Known Unknown

19. First C* allele designations: _____

Second C* allele designations: _____

Class II

20. Locus DRB1

 Known Unknown

21. First DRB1* allele designations: _____

Second DRB1* allele designations: _____

Class II (Optional)

Please provide the optional allele information if it is available from your laboratory.

22. Locus DRB3

 Known Unknown

23. First DRB3* allele designations: _____

Second DRB3* allele designations: _____

24. Locus DRB4

 Known Unknown

25. First DRB4* allele designations: _____

Second DRB4* allele designations: _____

26. Locus DRB5

 Known Unknown

27. First DRB5* allele designations: _____

Second DRB5* allele designations: _____

28. Locus DQB1 <input type="checkbox"/> Known → <input type="checkbox"/> Unknown	29. First DQB1* allele designations: _____ Second DQB1* allele designations: _____
30. Locus DPB1 <input type="checkbox"/> Known → <input type="checkbox"/> Unknown	31. First DPB1* allele designations: _____ Second DPB1* allele designations: _____
32. Locus DQA1 <input type="checkbox"/> Known → <input type="checkbox"/> Unknown	33. First DQA1* allele designations: _____ Second DQA1* allele designations: _____
34. Locus DPA1 <input type="checkbox"/> Known → <input type="checkbox"/> Unknown	35. First DPA1* allele designations: _____ Second DPA1* allele designations: _____

Antigens Defined by Serologic Typing	Questions: 36-41
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Use the following lists when reporting HLA-A and B antigens. Report broad antigens only when your laboratory was not able to confirm typing for a known split antigen.

Instructions for the use of the "X" Antigen Specificity for Typing By Serology

Each HLA locus has a serologically defined "X" antigen specificity: AX, BX, CX, DRX, DPX, and DQX. At this time an "X" specificity is defined as "unknown but known to be different from the other antigen at that locus." This is different from a blank specificity, which is defined as "unknown but assumed to be the same as the other antigen at that locus." When comparisons between recipient and donor antigens involve an "X" or "blank" specificity, the "X" or "blank" is assumed to be homozygous for the antigen reported at the locus. In other words, the search algorithm treats typings containing "blank" or "X" antigens in the same manner as known homozygous typings.

A Antigens

36. Number of antigens provided <input type="checkbox"/> one → <input type="checkbox"/> two →	37. Specificity – 1st antigen <table style="width: 100%; border: none;"> <tr> <td><input type="checkbox"/> A1</td> <td><input type="checkbox"/> A10</td> <td><input type="checkbox"/> A25(10)</td> <td><input type="checkbox"/> A32(19)</td> <td><input type="checkbox"/> A68(28)</td> </tr> <tr> <td><input type="checkbox"/> A2</td> <td><input type="checkbox"/> A11</td> <td><input type="checkbox"/> A26(10)</td> <td><input type="checkbox"/> A33(19)</td> <td><input type="checkbox"/> A69(28)</td> </tr> <tr> <td><input type="checkbox"/> A203</td> <td><input type="checkbox"/> A19</td> <td><input type="checkbox"/> A28</td> <td><input type="checkbox"/> A34(10)</td> <td><input type="checkbox"/> A74(19)</td> </tr> <tr> <td><input type="checkbox"/> A210</td> <td><input type="checkbox"/> A23(9)</td> <td><input type="checkbox"/> A29(19)</td> <td><input type="checkbox"/> A36</td> <td><input type="checkbox"/> A80</td> </tr> <tr> <td><input type="checkbox"/> A3</td> <td><input type="checkbox"/> A24(9)</td> <td><input type="checkbox"/> A30(19)</td> <td><input type="checkbox"/> A43</td> <td><input type="checkbox"/> AX</td> </tr> <tr> <td><input type="checkbox"/> A9</td> <td><input type="checkbox"/> A2403</td> <td><input type="checkbox"/> A31(19)</td> <td><input type="checkbox"/> A66(10)</td> <td></td> </tr> </table> 38. Specificity – 2nd antigen <table style="width: 100%; border: none;"> <tr> <td><input type="checkbox"/> A1</td> <td><input type="checkbox"/> A10</td> <td><input type="checkbox"/> A25(10)</td> <td><input type="checkbox"/> A32(19)</td> <td><input type="checkbox"/> A68(28)</td> </tr> <tr> <td><input type="checkbox"/> A2</td> <td><input type="checkbox"/> A11</td> <td><input type="checkbox"/> A26(10)</td> <td><input type="checkbox"/> A33(19)</td> <td><input type="checkbox"/> A69(28)</td> </tr> <tr> <td><input type="checkbox"/> A203</td> <td><input type="checkbox"/> A19</td> <td><input type="checkbox"/> A28</td> <td><input type="checkbox"/> A34(10)</td> <td><input type="checkbox"/> A74(19)</td> </tr> <tr> <td><input type="checkbox"/> A210</td> <td><input type="checkbox"/> A23(9)</td> <td><input type="checkbox"/> A29(19)</td> <td><input type="checkbox"/> A36</td> <td><input type="checkbox"/> A80</td> </tr> <tr> <td><input type="checkbox"/> A3</td> <td><input type="checkbox"/> A24(9)</td> <td><input type="checkbox"/> A30(19)</td> <td><input type="checkbox"/> A43</td> <td><input type="checkbox"/> AX</td> </tr> <tr> <td><input type="checkbox"/> A9</td> <td><input type="checkbox"/> A2403</td> <td><input type="checkbox"/> A31(19)</td> <td><input type="checkbox"/> A66(10)</td> <td></td> </tr> </table>	<input type="checkbox"/> A1	<input type="checkbox"/> A10	<input type="checkbox"/> A25(10)	<input type="checkbox"/> A32(19)	<input type="checkbox"/> A68(28)	<input type="checkbox"/> A2	<input type="checkbox"/> A11	<input type="checkbox"/> A26(10)	<input type="checkbox"/> A33(19)	<input type="checkbox"/> A69(28)	<input type="checkbox"/> A203	<input type="checkbox"/> A19	<input type="checkbox"/> A28	<input type="checkbox"/> A34(10)	<input type="checkbox"/> A74(19)	<input type="checkbox"/> A210	<input type="checkbox"/> A23(9)	<input type="checkbox"/> A29(19)	<input type="checkbox"/> A36	<input type="checkbox"/> A80	<input type="checkbox"/> A3	<input type="checkbox"/> A24(9)	<input type="checkbox"/> A30(19)	<input type="checkbox"/> A43	<input type="checkbox"/> AX	<input type="checkbox"/> A9	<input type="checkbox"/> A2403	<input type="checkbox"/> A31(19)	<input type="checkbox"/> A66(10)		<input type="checkbox"/> A1	<input type="checkbox"/> A10	<input type="checkbox"/> A25(10)	<input type="checkbox"/> A32(19)	<input type="checkbox"/> A68(28)	<input type="checkbox"/> A2	<input type="checkbox"/> A11	<input type="checkbox"/> A26(10)	<input type="checkbox"/> A33(19)	<input type="checkbox"/> A69(28)	<input type="checkbox"/> A203	<input type="checkbox"/> A19	<input type="checkbox"/> A28	<input type="checkbox"/> A34(10)	<input type="checkbox"/> A74(19)	<input type="checkbox"/> A210	<input type="checkbox"/> A23(9)	<input type="checkbox"/> A29(19)	<input type="checkbox"/> A36	<input type="checkbox"/> A80	<input type="checkbox"/> A3	<input type="checkbox"/> A24(9)	<input type="checkbox"/> A30(19)	<input type="checkbox"/> A43	<input type="checkbox"/> AX	<input type="checkbox"/> A9	<input type="checkbox"/> A2403	<input type="checkbox"/> A31(19)	<input type="checkbox"/> A66(10)	
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B Antigens

39. Number of antigens provided

- one \longrightarrow
- two \longrightarrow

40. Specificity – 1st antigen

- | | | | | |
|-------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|
| <input type="checkbox"/> B5 | <input type="checkbox"/> B27 | <input type="checkbox"/> B45(12) | <input type="checkbox"/> B56(22) | <input type="checkbox"/> B72(70) |
| <input type="checkbox"/> B7 | <input type="checkbox"/> B2708 | <input type="checkbox"/> B46 | <input type="checkbox"/> B57(17) | <input type="checkbox"/> B73 |
| <input type="checkbox"/> B703 | <input type="checkbox"/> B35 | <input type="checkbox"/> B47 | <input type="checkbox"/> B58(17) | <input type="checkbox"/> B75(15) |
| <input type="checkbox"/> B8 | <input type="checkbox"/> B37 | <input type="checkbox"/> B48 | <input type="checkbox"/> B59 | <input type="checkbox"/> B76(15) |
| <input type="checkbox"/> B12 | <input type="checkbox"/> B38(16) | <input type="checkbox"/> B49(21) | <input type="checkbox"/> B60(40) | <input type="checkbox"/> B77(15) |
| <input type="checkbox"/> B13 | <input type="checkbox"/> B39(16) | <input type="checkbox"/> B50(21) | <input type="checkbox"/> B61(40) | <input type="checkbox"/> B78 |
| <input type="checkbox"/> B14 | <input type="checkbox"/> B3901 | <input type="checkbox"/> B51(5) | <input type="checkbox"/> B62(15) | <input type="checkbox"/> B81 |
| <input type="checkbox"/> B15 | <input type="checkbox"/> B3902 | <input type="checkbox"/> B5102 | <input type="checkbox"/> B63(15) | <input type="checkbox"/> B82 |
| <input type="checkbox"/> B16 | <input type="checkbox"/> B40 | <input type="checkbox"/> B5103 | <input type="checkbox"/> B64(14) | <input type="checkbox"/> BX |
| <input type="checkbox"/> B17 | <input type="checkbox"/> B4005 | <input type="checkbox"/> B52(5) | <input type="checkbox"/> B65(14) | |
| <input type="checkbox"/> B18 | <input type="checkbox"/> B41 | <input type="checkbox"/> B53 | <input type="checkbox"/> B67 | |
| <input type="checkbox"/> B21 | <input type="checkbox"/> B42 | <input type="checkbox"/> B54(22) | <input type="checkbox"/> B70 | |
| <input type="checkbox"/> B22 | <input type="checkbox"/> B44(12) | <input type="checkbox"/> B55(22) | <input type="checkbox"/> B71(70) | |

41. Specificity – 2nd antigen

- | | | | | |
|-------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|
| <input type="checkbox"/> B5 | <input type="checkbox"/> B27 | <input type="checkbox"/> B45(12) | <input type="checkbox"/> B56(22) | <input type="checkbox"/> B72(70) |
| <input type="checkbox"/> B7 | <input type="checkbox"/> B2708 | <input type="checkbox"/> B46 | <input type="checkbox"/> B57(17) | <input type="checkbox"/> B73 |
| <input type="checkbox"/> B703 | <input type="checkbox"/> B35 | <input type="checkbox"/> B47 | <input type="checkbox"/> B58(17) | <input type="checkbox"/> B75(15) |
| <input type="checkbox"/> B8 | <input type="checkbox"/> B37 | <input type="checkbox"/> B48 | <input type="checkbox"/> B59 | <input type="checkbox"/> B76(15) |
| <input type="checkbox"/> B12 | <input type="checkbox"/> B38(16) | <input type="checkbox"/> B49(21) | <input type="checkbox"/> B60(40) | <input type="checkbox"/> B77(15) |
| <input type="checkbox"/> B13 | <input type="checkbox"/> B39(16) | <input type="checkbox"/> B50(21) | <input type="checkbox"/> B61(40) | <input type="checkbox"/> B78 |
| <input type="checkbox"/> B14 | <input type="checkbox"/> B3901 | <input type="checkbox"/> B51(5) | <input type="checkbox"/> B62(15) | <input type="checkbox"/> B81 |
| <input type="checkbox"/> B15 | <input type="checkbox"/> B3902 | <input type="checkbox"/> B5102 | <input type="checkbox"/> B63(15) | <input type="checkbox"/> B82 |
| <input type="checkbox"/> B16 | <input type="checkbox"/> B40 | <input type="checkbox"/> B5103 | <input type="checkbox"/> B64(14) | <input type="checkbox"/> BX |
| <input type="checkbox"/> B17 | <input type="checkbox"/> B4005 | <input type="checkbox"/> B52(5) | <input type="checkbox"/> B65(14) | |
| <input type="checkbox"/> B18 | <input type="checkbox"/> B41 | <input type="checkbox"/> B53 | <input type="checkbox"/> B67 | |
| <input type="checkbox"/> B21 | <input type="checkbox"/> B42 | <input type="checkbox"/> B54(22) | <input type="checkbox"/> B70 | |
| <input type="checkbox"/> B22 | <input type="checkbox"/> B44(12) | <input type="checkbox"/> B55(22) | <input type="checkbox"/> B71(70) | |

Optional Antigen Reporting

Questions: 42-58

Please provide the following optional antigen information if it is available from your laboratory.

Antigens Defined by Serologic Typing

C Antigens

42. Number of antigens provided

- one \longrightarrow
- two \longrightarrow

43. Specificity – 1st antigen

- | | | | |
|------------------------------|------------------------------|----------------------------------|-----------------------------------|
| <input type="checkbox"/> Cw1 | <input type="checkbox"/> Cw4 | <input type="checkbox"/> Cw7 | <input type="checkbox"/> Cw10(W3) |
| <input type="checkbox"/> Cw2 | <input type="checkbox"/> Cw5 | <input type="checkbox"/> Cw8 | <input type="checkbox"/> CX |
| <input type="checkbox"/> Cw3 | <input type="checkbox"/> Cw6 | <input type="checkbox"/> Cw9(W3) | |

44. Specificity – 2nd antigen

- | | | | |
|------------------------------|------------------------------|----------------------------------|-----------------------------------|
| <input type="checkbox"/> Cw1 | <input type="checkbox"/> Cw4 | <input type="checkbox"/> Cw7 | <input type="checkbox"/> Cw10(W3) |
| <input type="checkbox"/> Cw2 | <input type="checkbox"/> Cw5 | <input type="checkbox"/> Cw8 | <input type="checkbox"/> CX |
| <input type="checkbox"/> Cw3 | <input type="checkbox"/> Cw6 | <input type="checkbox"/> Cw9(W3) | |

Bw Specificity

45. Specificity Bw4 present? yes no
 46. Specificity Bw6 present? yes no

DR Antigens

47. Number of antigens provided

- one →
 two →

48. Specificity – 1st antigen				
<input type="checkbox"/> DR1	<input type="checkbox"/> DR5	<input type="checkbox"/> DR10	<input type="checkbox"/> DR1403	<input type="checkbox"/> DR18(3)
<input type="checkbox"/> DR103	<input type="checkbox"/> DR6	<input type="checkbox"/> DR11(5)	<input type="checkbox"/> DR1404	<input type="checkbox"/> DRX
<input type="checkbox"/> DR2	<input type="checkbox"/> DR7	<input type="checkbox"/> DR12(5)	<input type="checkbox"/> DR15(2)	
<input type="checkbox"/> DR3	<input type="checkbox"/> DR8	<input type="checkbox"/> DR13(6)	<input type="checkbox"/> DR16(2)	
<input type="checkbox"/> DR4	<input type="checkbox"/> DR9	<input type="checkbox"/> DR14(6)	<input type="checkbox"/> DR17(3)	
49. Specificity – 2nd antigen				
<input type="checkbox"/> DR1	<input type="checkbox"/> DR5	<input type="checkbox"/> DR10	<input type="checkbox"/> DR1403	<input type="checkbox"/> DR18(3)
<input type="checkbox"/> DR103	<input type="checkbox"/> DR6	<input type="checkbox"/> DR11(5)	<input type="checkbox"/> DR1404	<input type="checkbox"/> DRX
<input type="checkbox"/> DR2	<input type="checkbox"/> DR7	<input type="checkbox"/> DR12(5)	<input type="checkbox"/> DR15(2)	
<input type="checkbox"/> DR3	<input type="checkbox"/> DR8	<input type="checkbox"/> DR13(6)	<input type="checkbox"/> DR16(2)	
<input type="checkbox"/> DR4	<input type="checkbox"/> DR9	<input type="checkbox"/> DR14(6)	<input type="checkbox"/> DR17(3)	

DR51 Specificity

50. Specificity DR51 present? yes no

DR52 Antigen

51. Specificity DR52 present? yes no

DR53 Antigen

52. Specificity DR53 present? yes no

DQ Antigens

53. Number of antigens provided

- one →
 two →

54. Specificity – 1st antigen				
<input type="checkbox"/> DQ1	<input type="checkbox"/> DQ3	<input type="checkbox"/> DQ5(1)	<input type="checkbox"/> DQ7(3)	<input type="checkbox"/> DQ9(3)
<input type="checkbox"/> DQ2	<input type="checkbox"/> DQ4	<input type="checkbox"/> DQ6(1)	<input type="checkbox"/> DQ8(3)	<input type="checkbox"/> DQX
55. Specificity – 2nd antigen				
<input type="checkbox"/> DQ1	<input type="checkbox"/> DQ3	<input type="checkbox"/> DQ5(1)	<input type="checkbox"/> DQ7(3)	<input type="checkbox"/> DQ9(3)
<input type="checkbox"/> DQ2	<input type="checkbox"/> DQ4	<input type="checkbox"/> DQ6(1)	<input type="checkbox"/> DQ8(3)	<input type="checkbox"/> DQX

DP Antigens

56. Number of antigens provided

- one →
 two →

57. Specificity – 1st antigen			
<input type="checkbox"/> DPw1	<input type="checkbox"/> DPw3	<input type="checkbox"/> DPw5	<input type="checkbox"/> DPX
<input type="checkbox"/> DPw2	<input type="checkbox"/> DPw4	<input type="checkbox"/> DPw6	
58. Specificity – 2nd antigen			
<input type="checkbox"/> DPw1	<input type="checkbox"/> DPw3	<input type="checkbox"/> DPw5	<input type="checkbox"/> DPX
<input type="checkbox"/> DPw2	<input type="checkbox"/> DPw4	<input type="checkbox"/> DPw6	

CIBMTR Center Number: _____

CIBMTR Recipient ID: _____

First Name: _____

Last Name: _____

E-mail address: _____

Date: __ __ / __ __ / __ __
 YYYY MM DD