The results for B-cell Line Exchange #284 are summarized in Tables 1 - 2 and individual laboratory results reported for each sample are listed in Tables 3 - 6. The reference cells examined in this study were generously donated by Oxford Transplant Centre, Churchill Hospital, Oxford, and Welsh Blood Service, Pontyclun. We would like to also acknowledge and thank the labs performing NGS for sharing their results and encourage other NGS labs to share their findings. Haplotype frequencies used in this report are from the NMDP Bioinformatics website, https://bioinformatics.bethematchclinical.org/.

**Ter-567.** The consensus type for this cell from an Asian Indian donor was DRB1*15:02-DRB5*01:02-DQA1*01:03-DQB1*06:01-DPA1*01:03-DPA1*02:01- DPB1*04:02-DBP1*26:01/A*24:33-A*68:01-B*07:02-B*51:06-C*07:02-C*12:04. Exchange data combined with family analysis results published by Vilches (1) reveal the haplotypes in this cell to be A*24:33-B*51:06-C*12:04-DRB1*15:02-DRB5*01:02-DQA1*01:03-DQB1*06:01 and A*68:01-B*07:02-C*07:02-DRB1*15:02-DRB5*01:02-DQA1*01:03-DQB1*06:01.

This cell was NDS-JD, the reference cell for C*12:04:02:01. It was previously examined for class I as extracts 266 (2003), 218 (2002), 177 (2001), and 86 (1999) and for class II as Ter 242 (1999).

In this present retyping, the assignment of A*24:33 improved, as 100% (23/23) of labs assigned A*24:33 compared to only 7 labs assigning A*24:33 in 2003. A*68:01, B*07:02, B*51:06, C*07:02, and C*12:04 were all also well assigned (100%), with 8 labs reporting A*68:01:02, B*07:02:01, B*51:06:01, C*07:02:01, and C*12:04:02.

Good agreement was also achieved among labs for class II assignments, as 100% of labs reported this cell as homozygous for DRB1*15:02, DRB5*01:02, DQA1*01:03, and DQB1*06:01. DRB1*15:02:01 for assigned 10 labs, DQA1*01:03:01 was assigned by 6 labs, and DQB1*06:01:01 was assigned by 8 labs.

**Ter-568.** The consensus type for this cell from a Caucasian donor was DRB1*07:01-DRB1*15:07-DRB4*01:03:01N-DRB5*01:01-DQA1*01:02- DQA1*02:01-DQB1*03:03-DQB1*06:02-DPA1*01:03-DBP1*04:01/A*03:01- A*26:01-B*27:05-B*57:01-C*06:02-C*07:04. One likely association present in this cell was A*03:01-B*57:01-DRB1*07:01-DQB1*03:03, observed in Caucasians, with HF = 0.00130. The other likely association present was A*26:01- B*27:05-DRB1*15:07-DQB1*06:02.

This cell was UBM219893, the reference cell for DRB1*15:07:01. It was previously examined for class II as Ter 451 (2011), Ter 371 (2006), and Ter 291 (2002). We would like to acknowledge Rao for correctly identifying this cell as being the same cell as Ter 451.

In this present retyping, A*03:01, A*26:01 B*27:05 B*57:01, C*06:02, and C*07:04 were each reported by 100%. A*03:01:01, A*26:01:01, B*27:05:02, B*57:01:01, C*06:02:01, and C*07:04:01 were each assigned by 8 labs.

Good agreement was also achieved for class II assignments. DRB1*07:01 and DRB1*15:07 were each reported by 100%, with 10 labs reporting DRB1*07:01:01 and 11 labs reporting DRB1*15:07:01. DQB1*03:03 (100%) and DQB1*06:02 (100%) were the reported DQB1 types, with DQB1*03:03:02 and DQB1*06:02:01 each assigned by 8 labs.

References:


Happy Holidays!

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