B6.SJL-PltprPepcBoyJ

Stock No: 002014 | B6 Cd45.1

- Congenic

**READILY AVAILABLE**

**PLACE ORDER**

Readily available in any quantity needed.

**Overview**

![Image of a mouse]
This C57BL/6 congenic strain is used widely in transplant studies because it carries the differential \( Ptprc^a \) pan leukocyte marker commonly known as CD45.1 or Ly5.1. Wild-type C57BL/6 inbred mice express the \( Ptprc^b \) (CD45.2 or Ly5.2) allele.
The current gene symbol designation *Ptprc* instead of Cd45 or Ly5 is based on work by Charbonneau and colleagues who showed in humans that a protein-tyrosine phosphatase (human placental protein-tyrosine phosphatase 1B) is homologous to the CD45 protein. *Ptprc* is one of a family of protein-tyrosine phosphatase genes involved in the regulation of cell growth. A spontaneous mutation in the *Ncr1* gene is segregating in this strain (*Jang et al. 2018 J Immunol 200:1982*).
Mating System
Sibling x Sibling
Appearance
black
Related Genotype: a/a

Citation
When using the B6 Cd45.1 mouse strain in a publication, please cite the originating article(s) and include JAX stock #002014 in your Materials and Methods section.

Facility Barrier Level Descriptions
- AX4 (Standard)
- RB09 (Maximum)
- EM04 (Maximum)
- MP14 (Maximum)
- RB11 (Maximum)

Pricing & Availability

Readily available in any quantity needed.

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<th>AGE</th>
<th>SEX</th>
<th>GENOTYPE</th>
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