B 6. S Ptprc Pepc Boy J

Stock No: 002014 | B6 Cd45.1

Congenic

READILY AVAILABLE

PLACE ORDER

Readily available in any quantity needed.

Overview
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.

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

Pricing & Availability
Readily available in any quantity needed.

Domestic
International
Pricing effective for USA, Canada and Mexico shipping destinations

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Email: TechTran@jax.org

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