B10.A2-H2 - T18/SgsnJ

Stock No: 000469 | B10.A

Also Known As: B10.A

In this congenic strain, the A/WySn H2 complex (H2a), including the nonclassical class I T18a (thymus leukemia (TL) antigen) locus, was introgressed onto the C57BL/10SnSg background. Mice congenic for H2 haplotypes are widely used in immunologic research and often vary in immune response and pathogen susceptibility from the recipient strain.

GENETIC OVERVIEW

<table>
<thead>
<tr>
<th>Allele Type</th>
<th>Gene Symbol</th>
<th>Gene Name</th>
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<tbody>
<tr>
<td>H2a</td>
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AVAILABLE NOW

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In this congenic strain, the A/WySn H2 complex (H2\textsuperscript{a}), including the nonclassical class 1 T18\textsuperscript{a} (thymus leukemia (TL) antigen) locus, on chromosome 17 was introgressed onto the C57BL/10SnSg background. H2\textsuperscript{a} is a recombinant haplotype and occurs in the A inbred strains. The H2\textsuperscript{a} haplotype contains the following alleles: class I K - k, class II A and E - k, class I D - d, and nonclassical loci Qa and T18 - a. In contrast to this congenic, C57BL/6 and C57BL/10 mice carry a natural deletion of the T18 (T18\textsuperscript{B}) gene. Mice congenic for H2 haplotypes are widely used in immunologic research and often vary in immune response and pathogen susceptibility from the recipient strain.
Genotyping Protocols
End Point Analysis: H2-T18<sup>a/b</sup>-EP
End Point Analysis: H2<sup>b</sup>-EP
Sanger sequencing: H2-T18<sup>a/b</sup>
Sanger sequencing: H2<sup>b</sup>

Genotyping resources and troubleshooting

Dietary Information
LabDiet® 5K52 formulation (6% fat)

Breeding Considerations

This strain is a good breeder.

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Additional Breeding and Husbandry Support

Mating System
Homozygote x Homozygote

Appearance
black

Related Genotype: a/a

Citation
When using the B10.A mouse strain in a publication, please cite the originating article(s) and include JAX stock #000469 in your Materials and Methods section.

Pricing & Availability

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Live Mouse

<table>
<thead>
<tr>
<th>AGE</th>
<th>SEX</th>
<th>GENOTYPE</th>
<th>PRICE</th>
</tr>
</thead>
</table>

| a/a | a/b | a/a | a/a |

AX5 (Standard)
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