B6.129S4-Ccl2<sup>tm1Rol/J</sup>

Stock No: 004434 | Ccl2 KO

Available Now

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Sized to accommodate orders of up to 10 or more with age range. Ask Customer Service for details.
Also Known As: Ccl2 KO

Mice that are homozygous for the targeted mutation show similar numbers of peritoneal macrophages, Kupffer cell and alveolar macrophages to those observed in wildtype mice. Thioglycollate induced peritonitis results in impaired recruitment of monocytes and macrophages to peritoneal cavity. Cellular recruitment to delayed-type hypersensitivity challenges and secondary granulomata is reduced. This mutant mouse strain represents a model that may be useful in studies related to leukocyte trafficking.

Donating Investigator
Barrett J. Rollins, Dana-Farber Cancer Inst, Harvard Med Sch

GENETIC OVERVIEW

<table>
<thead>
<tr>
<th>Genetic Background</th>
<th>Generation</th>
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<tr>
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Ccl2^im1Roi

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<tr>
<th>Allele Type</th>
<th>Gene Symbol</th>
<th>Gene Name</th>
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<tbody>
<tr>
<td>Targeted (Null/Knockout)</td>
<td>Ccl2</td>
<td>chemokine (C-C motif) ligand 2</td>
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RESEARCH APPLICATIONS
Cancer Research
Immunology, Inflammation and Autoimmunity Research
Details

Detailed Description
Mice that are homozygous for the targeted mutation are viable, fertile, normal in size and do not display any gross physical or behavioral abnormalities. No gene product is detected in lipopolysaccharide (LPS) -stimulated peritoneal macrophages isolated from homozygous mice. The numbers of peritoneal macrophages, Kupffer cell and alveolar macrophages were similar to levels found in wildtype mice. Thioglycollate induced peritonitis results in impaired recruitment of monocytes and macrophages to peritoneal cavity. Cellular recruitment to delayed-type hypersensitivity challenges and secondary granulomata is reduced. This mutant mouse strain represents a model that may be useful in studies related to leukocyte trafficking.

Development

Control Suggestions

Selected References

Genetics

Ccl2<sup>Kim<sub>Trpl</sub></sup>

Disease/Phenotype

Disease Terms

Research Areas By Genotype

Mammalian Phenotype Terms by Genotype

References

Technical Support
### Genotyping Protocols
- End Point Analysis: \(\text{Crb}^{rdg}\) End Point
- Melt Curve Analysis: \(\text{Ccl}^{tm1Ro1}\)
- Standard PCR: \(\text{Ccl}^{tm1Ro1}\)

Genotyping resources and troubleshooting

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

### Breeding Considerations

**This strain is a good breeder.**

When maintaining a live colony, homozygous mice may be bred together. The expected coat color is Black.

Additional Breeding and Husbandry Support

### Mating System
Homozygote x Homozygote

### Citation
When using the Ccl2 KC mouse strain in a publication, please cite the originating article(s) and include JAX stock #004434 in your Materials and Methods section.

### Animal Health Reports
- Facility Barrier Level Descriptions
- AXB (Standard)

### Pricing & Availability

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### Domestic | International

Pricing effective for USA, Canada and Mexico shipping destinations

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<thead>
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<th>AGE</th>
<th>SEX</th>
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**Terms of Use**

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Phone: 207-288-6470

Email: TechTran@jax.org

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