

## B6(C)-H2-Ab1<sup>bm12</sup>/KhEgJ

Stock No: 001162 | bm12

 Coisogenic, Spontaneous Mutation

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### Also Known As:bm12

This variant MHC class II allele, *H2-Ab1<sup>bm12</sup>*, is associated with increased resistance to experimental autoimmune myasthenia gravis (EAMG). Mice congenic for H2 alleles are widely used in immunologic research and often vary in immune response and pathogen susceptibility from the recipient strain.

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## GENETIC OVERVIEW

### Genetic Background

### Generation

[Contact Technical Support](#)  
(2019-05-22 00:00:00)

### *H2-Ab1<sup>bm12</sup>*

### Alele Type

Spontaneous

### Gene Symbol

*H2-Ab1*

### Gene Name

histocompatibility 2, class II antigen A, beta 1

V I E W   G E N E T I C S

## RESEARCH APPLICATIONS

Immunology, Inflammation and Autoimmunity Research  
Research Tools

V I E W   A L L   R E S E A R C H   A P P L I C A T I O N S

## BASE PRICE

Starting at:

\$92.45 Domestic price for female 3-week

V I E W   P R I C E   L I S T

### Details

#### Detailed Description

*H2-Ab1<sup>bm12</sup>* differs from *H2-Ab1<sup>b</sup>* by 3 nucleotides resulting in amino acid substitutions in three codons in the beta1 exon. Surface expression of MHC class II A is reduced as is the amount of invariant chain co-precipitated with the alpha and beta chains. This variant MHC class II allele is associated with increased resistance to experimental autoimmune myasthenia gravis (EAMG). Homozygous mice exhibit lower IFNG and IL10 release and decreased calcium mobilization in response to immunization with acetylcholine receptor and its dominant peptide alpha146-162. Like other mice with the *H2<sup>b</sup>* haplotype, this strain is MHC class II E<sup>b</sup>; the b allele is considered a null allele. Mice congenic for H2 alleles are widely used in immunologic research and often vary in immune response and pathogen susceptibility from the recipient strain.

#### Development

#### Control Suggestions

#### Selected References

## Genetics

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[+ H2-Ab1<sup>bm12</sup>](#)

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## Disease/Phenotype

[+ Disease Terms](#)

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[+ Research Areas By Phenotype](#)

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[+ Mammalian Phenotype Terms by Genotype](#)

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[+ References](#)

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## Technical Support

C O N T A C T   T E C H N I C A L   S U P P O R T

### Genotyping Protocols

Pyrosequencing:[H2-Ab1](#)

End Point Analysis:[H2-Ab1 EP](#)

Sanger sequencing:[H2-Ab1-SEQ](#)

[Genotyping resources and troubleshooting](#)

The Jackson Laboratory has not developed a genotyping protocol for *H2* haplotypes. The following reference may help:

Saha BK. *J Immunol Meth* 1996 Jul 17;194(1):77-83. (PMID: 8690943). Alternatively, haplotype-specific antibodies can be used with FACS.

### Breeding Considerations

[This strain is a good breeder.](#)

[Additional Breeding and Husbandry Support](#)

#### Mating System

Homozygote x Homozygote

#### Appearance

black

Related Genotype: *a/a*

## Citation

When using the bm12 mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #001162 in your Materials and Methods section.

## Animal Health Reports

[Facility Barrier Level Descriptions](#)

 [AX4 \(Standard\)](#)

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## Domestic **International**

Pricing effective for USA, Canada and Mexico shipping destinations

LIVE MOUSE			
AGE	SEX	GENOTYPE	PRICE
3 weeks	Female	Homozygous for H2-Ab1 <sup>bm12</sup>	\$92.45
	Male	Homozygous for H2-Ab1 <sup>bm12</sup>	\$92.45
4 weeks	Female	Homozygous for H2-Ab1 <sup>bm12</sup>	\$92.45
	Male	Homozygous for H2-Ab1 <sup>bm12</sup>	\$92.45
5 weeks	Female	Homozygous for H2-Ab1 <sup>bm12</sup>	\$92.45
	Male	Homozygous for H2-Ab1 <sup>bm12</sup>	\$92.45
6 weeks	Female	Homozygous for H2-Ab1 <sup>bm12</sup>	\$95.90
	Male	Homozygous for H2-Ab1 <sup>bm12</sup>	\$95.90
7 weeks	Female	Homozygous for H2-Ab1 <sup>bm12</sup>	\$99.35
	Male	Homozygous for H2-Ab1 <sup>bm12</sup>	\$99.35
8 weeks	Female	Homozygous for H2-Ab1 <sup>bm12</sup>	\$102.80
	Male	Homozygous for H2-Ab1 <sup>bm12</sup>	\$102.80
9 weeks	Female	Homozygous for H2-Ab1 <sup>bm12</sup>	\$106.25
	Male	Homozygous for H2-Ab1 <sup>bm12</sup>	\$106.25
10 weeks	Female	Homozygous for H2-Ab1 <sup>bm12</sup>	\$109.70

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Phone: 207-288-6470

Email: [TechTran@jax.org](mailto:TechTran@jax.org)

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